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# **SITE INSPECTION REPORT**

**VANGUARD VINYL SIDING, INC.**

**AKA: GAF VANGUARD VINYL SIDING**

**EPA ID#:. NJD982530073**

**GLOUCESTER CITY, CAMDEN COUNTY**



New Jersey Department of Environmental Protection and Energy  
Division of Publicly Funded Site Remediation  
Site Assessment

280617



VANGUARD VINYL SIDING, INC.  
AKA: GAF VANGUARD VINYL SIDING  
CHARLES AND WATER STREETS  
GLOUCESTER CITY, CAMDEN COUNTY, NEW JERSEY  
EPA ID NO. NJD982530073

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NARRATIVE



## SITE INSPECTION REPORT

### PART I: GENERAL INFORMATION

**Site Name:** Vanguard Vinyl Siding, Inc.

**Aka:** GAF Vanguard Vinyl Siding

**Address:** Charles and Water Streets

**Municipality:** Gloucester City **State:** New Jersey **Zip Code:** 08030

**County:** Camden

**EPA ID No.:** NJD982530073

**Block:** 110

**Lot(s):** 3B

**Latitude:** 39° 53' 26"

**Longitude:** 75° 07' 45"

**Acreage:** 2.06

**SIC Code:** 3292

**Current Owner:** Facility is abandoned

**Current Operator:** Facility is abandoned

#### Owner/Operator History:

<u>NAME</u>	<u>OPERATOR/ OWNER</u>	<u>FROM</u>	<u>DATES</u> <u>TO</u>
Vanguard Vinyl Siding	Owner and Operator	1981	1983
GAF Vanguard Vinyl Siding	Merger with Ruberoid Company	1967	1981
Ruberoid Company	Owner and Operator	1935	1981
Lang Mills	Owner and Operator	prior to 1930	1935
Pusey and Jones Shipyard	Owner and Operator	late 1890s	early 1900

Although Gloucester City does not own the property, it retains resale rights as a result of back taxes owed by the previous owner.

#### Surrounding Land Use (zoning, adjacent properties):

The facility is situated in an industrial park and is bordered to the south by an abandoned portion of the GAF Corporation, the west by the Delaware River, the east by Water Street and the north by Koch Fuels, Inc.

**Distance to Nearest Residence:** 0.3 mile

**Direction:** northeast

**Population Density (residents per square mile):**

There are 2,315 people per square mile in Gloucester City according to a 1990 Census.

## **PART II: SITE OPERATIONS**

**Discuss all current and past operations at the site.**

Sanborn Fire Insurance maps indicate that a hotel and cottages were situated on and around the property from the late 1890s through the early 1900s. Prior to World War I, the site was occupied by the Pusey and Jones Shipyard (also known as the Pennsylvania Ship Building Company) and a paper production facility owned and operated by Lang Mills. The precise nature of site operations dating back to the early part of the century while functioning as a shipyard and paper mill are unknown (refer to attachment N).

The manufacturing of products containing asbestos, such as piping and shingles, dates from the early 1950s through the 1960s, while under the ownership and operation of the Ruberoid Company. Approximately 12 to 15 percent of the asbestos produced on site was discarded as a solid waste, possibly in an area to the rear of the facility. Vinyl siding produced by Vanguard Vinyl Siding (VVS), involved the use of polyvinyl chloride resins, stabilizers and pigments. Resins were stored in large silos situated on an outdoor, concrete pad along the north side of the facility. Pigments, stabilizers and other raw materials were stored in 55-gallon drums on indoor and outdoor drum racks. The indoor rack was situated in the facility's northern corridor and lacked a secondary containment system. The outdoor drum rack, reported to be situated to the north of the outdoor concrete pad, also lacked the proper secondary containment system. Other raw materials were stored in a variety of containers which were stored and handled at miscellaneous locations throughout the site (refer to attachment N).

The facility consists of two buildings referred to as Building 10 and Building 3, interconnected by three separate corridors. Designated work stations within the two buildings included a machine shop, dye shop, electrical shop, millwright shop, welding shop, blending area and quality control laboratory. The perimeter of the property is fenced with two entry points along Water Street (refer to attachment N).

Three areas of concern were identified by BMS of Plymouth Meeting, Pennsylvania, an environmental consulting firm retained by VVS in 1985. These include a truck loading area, designated as Area A, situated on the north side of Building 3 which was used as a shipping and receiving station for raw materials and finished products. Area B is located in the north corridor, where runoff from an indoor drum storage rack occurred. Area C, situated in the manufacturing building, consists of areas of exposed ground in the concrete floor (refer to attachment A).

Camden County Health Officials conducting an inspection on July 15, 1986 observed a variety of abandoned materials scattered haphazardly throughout the facility. These materials were stored in boxes, small containers, bags and 55-gallon drums and included,

phthalates and polyvinyl chloride resins, acetaminophen powder, dyes, titanium pigments, petroleum products, solvents, heat transferring fluids, automobile transmission fluids, unknowns and solid waste such as paper, cardboard and rags. In addition, a variety of laboratory reagents were discovered in the facility's former laboratory which included trichloroethane, methylene chloride and cyclohexanone. Asbestos related materials were also found in large quantities throughout the facility (refer to attachment D).

Joint follow-up inspections conducted by the NJDEPE, the Camden County Health Department and the Gloucester City Fire Department from September 1986 through February 1992, found site conditions to be largely unchanged; however, in some cases vandalism may have resulted in the spillage of material (refer to attachments A, E, F, H, I, and J).

The Department submitted the site to the U.S. Environmental Protection Agency Region II (EPA), for CERCLA removal action consideration on March 11, 1992. In response to the ongoing threat posed by the facility, the Department requested that EPA stabilize the site by characterizing, overpacking and disposing of all of the chemical and asbestos related hazardous materials in such a way as to safeguard the health and welfare of the local population. (refer to attachment O)

As a result of the Department's request, EPA conducted a Removal Site Evaluation (RSE) of the facility on April 1, and 16, 1992. Samples collected for hazard characterization indicated the presence of a variety of hazardous materials which qualified the site for removal eligibility. (refer to attachment P)

An Action Memorandum was approved by EPA Region II Headquarters on September 28, 1992 to address the drums and raw materials abandoned on site. EPA mobilized at the facility on December 14, 1992 and initiated removal activities. The first phase of the removal action was completed on July 2, 1993, resulting in the disposal of 30 tons of resin, 2,287 kilograms (kg) of polychlorinated biphenyl (PCB) oils, 70 gallons of oxidizers, 800 gallons of organic liquids, three 55-gallon drums of contaminated soil, 150 gallons of neutral liquids, three 55-gallon drums of lab packs, 3,000 gallons of asbestos wastewater and 320 cubic yards of asbestos contaminated materials. (refer to attachments Q and R)

A request for a ceiling increase was submitted by EPA's Region II Headquarters on September 23, 1993, for additional funding to complete Phase II of the removal action, which calls for the disposal of the remaining asbestos related material secured in bags on site. The request was not approved as of the date of this report (refer to attachment S).

On October 13, 1993, the NJDEPE, Division of Publicly Funded Site Remediation (DPFSR), Site Assessment Section (SA), collected nine soil samples from designated areas of concern which included runoff

from the former indoor and outdoor drum storage racks, open floor trenches in Building 3, an area surrounding an excavated drum carcass and soil adjacent to a 10,000-gallon aboveground storage tank. Sample results indicated levels for semivolatile organics, petroleum hydrocarbons and metals in excess of the Department's Soil Cleanup Criteria. Analytical results are discussed in Part XII: Sampling Data. (attachment U)

### **PART III: PERMITS**

#### **A. NJPDES**

<u>Number</u>	<u>Discharge Activity</u>	<u>Date Issued</u>	<u>Expiration Date</u>	<u>Formation or Body of Water Discharged To</u>
none				

#### **B. New Jersey Air Pollution Control Certificates**

Plant ID No.: not applicable  
No. of Certificates: none  
Equipment Permitted: none

#### **C. BUST Registration**

Registration No.: not applicable  
No. of Tanks: none

#### **D. Other Permits**

<u>Agency Issuing Permit</u>	<u>Type of Permit</u>	<u>Permit No.</u>	<u>Date Issued</u>	<u>Expiration Date</u>
none				

### **PART IV: GROUND WATER ROUTE**

#### **A. HYDROGEOLOGY**

Describe geologic formations and aquifer(s) of concern. Include interconnections, confining layers, discontinuities, composition and permeability.

The facility is situated near the western boundary of the Atlantic Coastal Plain Physiographic Region and is underlain by unconsolidated sediments of Quaternary, Tertiary and Cretaceous age consisting of alternating layers of sands, silts and clays. These sediments, estimated to be 250 feet thick, thicken eastward towards the Atlantic Ocean.

The most productive source of ground water in Camden County is the Potomac-Raritan-Magothy Aquifer system which consists of aquifers composed of sand and gravel and confining units of silts and clays. The sands are divided into three hydrologic units, an upper, middle and lower aquifer. The Magothy Formation comprises the upper unit while the middle and lower units are composed of sands of the Raritan Formation and the Potomac Group (refer to attachment W).

**Depth to aquifer of concern:** Site specific unknown (nearest well is 306 feet in depth)

**Thickness of aquifer:** 260 feet to 1,210 feet (attachment W)

**Direction of ground water flow:** west

**Karst (Y/N):** No

**Wellhead Protection Area (Y/N):** No

**Distance:** NA

#### B. MONITORING WELL INFORMATION

<u>Well No.</u>	<u>Screen Depth</u>	<u>Formation</u>	<u>Location</u>
none			

**Identify the upgradient well(s):** NA

Briefly discuss why the monitoring wells were installed and describe contaminants identified in the monitoring wells. Include Well No., sampling date, sampling agency or company, contaminant levels and cleanup standards.

There are no monitoring wells on site and subsequently no data available on site specific ground water quality.

#### C. POTABLE WELL INFORMATION

**Distance to nearest potable well:** 0.8 mile

**Identify all public supply wells within 4 miles of the site:**

<u>Water Company</u>	<u>Distance from site (miles)</u>	<u>Depth (feet)</u>	<u>Formation</u>
Gloucester City	0.9	262	GKMR
Gloucester City	0.9	269	GKMR
Gloucester City	0.8	306	GKMR
Gloucester City	0.8	260	GKMR
Brooklawn Borough	0.9	327	GKMR
Water Department			
Brooklawn Borough	0.9	320	GKMR
Water Department			

<u>Water Company</u>	<u>Distance from site (miles)</u>	<u>Depth (feet)</u>	<u>Formation</u>
Brooklawn Borough Water Department	0.8	293	GKMR
National Park Borough	3.3	282	GKMR
National Park Borough	3.3	275	GKMR
New Jersey American Water Company	3.9	272	GKMR
New Jersey American Water Company	3.9	598	GKMR
New Jersey American Water Company	2.9	190	GKMR
New Jersey American Water Company	2.9	484	GKMR
Collingswood Borough	3.5	281	GKMR
Collingswood Borough	3.5	290	GKMR
Collingswood Borough	3.5	304	GKMR
Collingswood Borough	3.4	311	GKMR
Collingswood Borough	3.7	281	GKMR
Collingswood Borough	3.4	312	GKMR
Collingswood Borough	2.4	318	GKMR
Bellmawr Borough	1.6	359	GKMR
Bellmawr Borough	2.6	557	GKMR
Bellmawr Borough	2.5	562	GKMR
Bellmawr Borough	1.5	386	GKMR
Haddon Twp. Water Dept.	3.9	481	GKMR
Haddon Twp. Water Dept.	3.7	448	GKMR
Haddon Twp. Water Dept.	3.7	487	GKMR
Haddon Twp. Water Dept.	3.9	475	GKMR
Camden City Water Division	3.3	230	GKMR
Camden City Water Division	3.3	270	GKMR
Camden City Water Division	3.3	290	GKMR
West Deptford Water Dept.	3.3	366	GKMR
West Deptford Water Dept.	2.6	363	GKMR
Westville Borough	1.3	313	GKMR
Westville Borough	1.4	274	GKMR
Westville Borough	1.2	317	GKMR
Deptford Township MUA	2.6	363	GKMR
Woodbury City Water Dept.	3.3	305	GKMR

\* GKMR - Magothy and Raritan Formations  
(Map 5)

**Discuss private potable well use within 4 miles of the site.  
Include depth, formation and distance, if available.**

Local and county records do not accurately reflect the precise number of active domestic wells within a 4-mile radius of the site. Although some wells may still be operational, most of the potable water in the area is supplied by a municipal system.

<u>Distance from site (miles)</u>	<u>Population utilizing ground water</u>
0 - 1/4	0
1/4 - 1/2	0
1/2 - 1	15,020
1 - 2	11,760
2 - 3	24,960
3 - 4	90,875

(refer to blending section of PA Score)

**Discuss any evidence of contaminated drinking water or wells closed due to contamination.**

There are no records indicating potable well closures as a result of contamination migrating from the facility.

**Identify industrial/irrigational wells within the vicinity of the site. Include depth, formation, distance and direction, if available.**

<u>Company</u>	<u>Distance from site (miles)</u>	<u>Depth (feet)</u>	<u>Formation</u>
G&W Natural Resources	0.3	261	GKR
G&W Natural Resources	0.4	280	GKR
G&W Natural Resources	0.4	255	GKR
G&W Natural Resources	0.4	281	GKR
G&W Natural Resources	0.4	274	GKR

\* GKR - Raritan Formation

(Map 5)

#### **D. POTENTIAL**

**Discuss the potential for ground water contamination, including any other information concerning the ground water contamination route.**

Contamination of ground water in the Potomac-Raritan-Magothy aquifer system in the Philadelphia area has created a potential water-quality problem for the Camden area near the Delaware River. The scope of contamination could extend as far south as the VVS facility (refer to attachment W).

The extensive site history and concentration of local industry may have impacted area ground water quality. Areas of environmental concern identified by joint and independent state, local and

private investigations, could contribute to the degradation of ground water quality as evidenced by the semivolatile, inorganic and petroleum hydrocarbon contamination found in concentrations in excess of the Department's Soil Cleanup Criteria (refer to attachment U).

## **PART V: SURFACE WATER ROUTE**

### **A. SURFACE WATER**

**Does a migration pathway to surface water exist (Y/N): Y**

**Flood plain:** Zone A5                      **Slope:** < 3 %  
100-Year Flood Boundary

(refer to map 7)

**Does contaminated ground water discharge to surface water (Y/N):**

unknown

**Identify known or potentially contaminated surface water bodies. Follow the pathway of the surface water and indicate all adjoining bodies of water along a route of 15 stream miles.**

<u>Surface Water Body</u>	<u>Distance from site</u>	<u>Flow(cfs)</u>	<u>Usage(s)</u>
Delaware River	adjacent	5900	fishing, boating, potable/ industrial/ agricultural water source

(refer to Map 1, attachment X)

**Identify drinking water intakes within 15 miles downstream (or upstream in tidal areas) of the site. For each intake identify the distance from the point of surface water entry, the name of the supplier and population served.**

The City of Philadelphia operates one drinking water intake along the Delaware River 14.7 miles upstream of the facility at Torresdale, Pennsylvania (refer to attachment N).



Briefly discuss surface water or sediment sampling conducted in relation to the site. Discuss any visual observations of contamination if analytical data is not available (include date of observation). Include surface water body, sampling date, sampling agency or company, contaminant.

No sampling of surface water or sediments along the Delaware River adjacent to the site have been collected, therefore no data exists on the quality of these media.

Discuss the potential for surface water contamination, include any additional information concerning the surface water route.

Runoff from contaminated soil on site could impact the adjacent Delaware River. Tidal fluctuations raise the river into a channel which runs along the northern site boundary.

#### B. SENSITIVE ENVIRONMENTS

Identify all sensitive environments, including wetlands, along the 15 stream-mile pathway from the site:

<u>Environment Type</u>	<u>Surface Water Body</u>	<u>Flow (cfs)</u>
Coastal wetlands (tidal flats)	Delaware River	5,900

(Map 6)

Threatened and endangered species inhabiting the Delaware River include the shortnose sturgeon (Acipenser brevirostrum) and the American shad (Alosa sapidissima).

(refer to attachment N)

#### PART VI: AIR ROUTE

Discuss observed or potential air release.

All asbestos related materials on site which posed a chronic health threat have been removed or secured in bags as part of the removal action conducted by EPA. No other threats of an air related health hazard are currently present.

(attachment R)

**Populations that reside within 4 miles of the site.**

<u>Distance (miles)</u>	<u>Population</u>
0 - 1/4	100
1/4 - 1/2	3,505
1/2 - 1	8,265
1 - 2	28,150
2 - 3	111,305
3 - 4	160,095

(attachment N)

**Identify sensitive environments and wetland acreage within 1/2 mile of the site.**

Tidal flats varying in size and consistency, are situated to the north along the Delaware River and the south, extending into the confluence with Little Timber Creek.

(Map 6)

**PART VII: SOIL EXPOSURE**

**Describe soil type. Include soil series, makeup of the soil and permeability of the soil.**

Indigenous soil is classified as the Downer-Woodstown-Dragston series which includes gently sloping, grayish-brown sandy soils. The Downer series consists of nearly level to gently sloping dark grayish-brown, well-drained soils underlain by a yellowish-brown subsoil which is moderately to rapidly permeable (refer to attachment N).

**Briefly discuss contaminants identified in the soil. Include sampling date, sampling agency or company, sample locations, depth and contaminant level.**

BSM of Plymouth Meeting, Pennsylvania conducted limited soil sampling in November 1985 from the three previously mentioned areas of concern. Contaminants detected in the truck loading/unloading area (Area A) included petroleum hydrocarbons (PHCs) (9,080 ppm), 1,2-dichloroethane (1.08 ppm), di-(ethylhexyl) phthalate (7.56 ppm) and di-N-octyl phthalate (11.5 ppm). Contaminants detected in Area B where runoff from the former indoor drum storage rack occurred indicated the presence of PHCs (15,800 ppm), trans-1,2-dichloroethene (2.70 ppm) and trans-1,3-dichloro-propylene (2.01 ppm). Lead in concentrations of 141 ppm was detected in Area C where open trenches are situated in Building #3 (refer to attachment A).

On October 13, 1993, the NJDEPE, DPFSR, SA collected nine soil samples ranging in depth from surficial to 4 feet at designated areas of concern throughout the facility which included runoff from the former indoor and outdoor drum storage racks, open floor

trenches in Building #3, an excavated drum carcass to the east of Building #3 and an area adjacent to a 10,000-gallon aboveground storage tank located in the south courtyard. Sample results indicate elevated levels for semivolatile organics, inorganics and petroleum hydrocarbons in excess of the Department's Soil Cleanup Criteria (refer to attachments T and U).

If no soil sampling has been conducted, discuss areas of potentially contaminated soil, areas that are visually contaminated or results from soil gas surveys.

Areas of contaminated soil are evident as a result of soil samples collected by the NJDEPE, DPFSR on October 13, 1993.

Number of people that occupy residences or attend school or day care on or within 200 feet of the site: 0

Number of workers on or within 200 feet of the site: 10

Does a subsurface gas threat exist? (Y/N): no

If so, discuss the threat (homes or occupied buildings).

#### **PART VIII: DIRECT CONTACT**

Describe accessibility of the site (fencing, site security, evidence of unauthorized entry).

Although the boarded and locked building is surrounded by a secured fence, evidence of frequent breakins by vandals and adolescents is apparent. Efforts to secure the building from entry by the Gloucester City Fire Department have been unsuccessful. As a result of the removal action conducted by EPA, all of the hazardous materials within the building which posed a direct contact threat have been disposed of with the exception of bags of friable asbestos related material currently stored within the building in asbestos safe bags (refer to attachment R).

Number of on-site employees: 0

#### **PART IX: FIRE AND EXPLOSION**

Discuss all incidents on site which have involved a fire or explosion. Indicate the date of the incident and the materials involved.

Evidence of small fires within the building started by trespassers have been observed in the past. However, no instances of fires or explosions are on record for this facility.

**Discuss site conditions which indicate a potential exists for fire or explosion (reactivity, incompatibility, ignitability, storage practices, container condition).**

Conditions for a fire or explosion to occur as a result of site conditions have been greatly reduced as a result of the removal action conducted by EPA.

#### **PART X: ADDITIONAL CONSIDERATIONS**

**Discuss evidence of wildlife or vegetation that has been or could be potentially impacted by on-site operations. Include areas exhibiting stressed vegetation or damage to wildlife.**

No damage to flora or fauna was evident during the sampling episode conducted by the NJDEPE, DPFSR, SA, on October 13, 1993. A dead field mouse observed on this date can be attributed to natural causes.

**Determine if a contaminant on site displays bioaccumulative properties. Name all bioaccumulative substances that may impact the food chain.**

Contaminants with bioaccumulative properties, such as benzo (a) pyrene, arsenic and lead, were found in concentrations above the Department's Soil Cleanup Criteria (refer to attachment U).

**Discuss observed or potential damage to off-site property. Consider migration routes from the site to an off-site property via soil, air or runoff. Do not count groundwater contamination to an off-site well as damage to off-site property.**

No damage to off-site property is evident as a result of the facility's operational history.

#### **PART XI: PREVIOUS OR ONGOING REMEDIAL ACTIONS**

**Discuss for each media all previous and ongoing remedial activities at the site. Include why initiated, type of action, date and present status.**

The USEPA conducted a removal action on site at the request of the NJDEPE from December 14, 1992 to July 2, 1993 which resulted in the disposal of all containerized hazardous waste. Upon approval, Phase II of EPA's removal action will result in the final disposition of the bagged asbestos currently stored on site (refer to attachment R).

**PART XII: ENFORCEMENT ACTIONS**

1. **Type of enforcement activity:** Notice of Violation  
**Issuing agent:** NJDEP, Division of Hazardous Waste Management (DHWM), Bureau of Southern Field Office (BSFO)  
**Date:** November 11, 1986  
**Description of violation:**  
Discharge of a hazardous substance and failure to notify the NJDEP (refer to attachment E)  
  
**Follow-up activity:**  
A second inspection conducted by the NJDEP, Division of Hazardous Waste Management (DHWM), on September 4, 1986, indicated that site conditions and similar violations remained unchanged (refer to attachment F)
2. **Type of enforcement activity:** Notice of Violation  
**Issuing agent:** NJDEP, DHWM, BSFO  
**Date:** August 8, 1991  
**Description of violation:**  
Discharge of a hazardous substance and failure to notify the NJDEP (refer to attachment L)  
  
**Follow-up activity:**  
No evidence of corrective action was found in the records researched for this document.

**PART XIII: SAMPLING DATA**

1.
  - a. **Sampling date:** March 6, 1985
  - b. **Sampled by:** BMS  
Plymouth Meeting, Pennsylvania
  - c. **Samples:** (21) soil
  - d. **Laboratory:** BCM Laboratory Division  
Norristown, Pa.  
  
**Certification No.** 71715
  - e. **Parameters:** priority pollutants +45, total petroleum hydrocarbons, purgeable aromatics, purgeable halocarbons, barium, cadmium, chromium, lead, tin and titanium

**f. Sample description:**

Area A - 8 samples around the former drum storage area  
Area B - 5 samples from area of runoff  
Area C - 6 samples from trenches  
1 background sample

**g. Contaminants detected:**

<u>AREA A</u>	<u>CONTAMINANT</u>	<u>CONCENTRATION (ppm)</u>	<u>SCC (ppm)</u>
	di-(ethyl hexyl) phthalate	7.56	NS
	di-n-octyl phthalate	11.5	1,000
	chloroform	0.02	690.0
	1,2-dichloroethane	1.08	1,000
	tetrachloroethane	0.70	NS
*	arsenic	2.72	2.0
	barium	35.1	26,000
	cadmium	0.70	100.0
	chromium	20.1	NS
	mercury	0.63	260.0
	lead	0.11	600.0
	total petroleum hydrocarbons	9,080	10,000

<u>AREA B</u>	<u>CONTAMINANT</u>	<u>CONCENTRATION (PPM)</u>	<u>SCC (ppm)</u>
	methylene chloride	0.14	170.0
	trans-1,2-dichloroethylene	2.70	NS
	chloroform	0.31	690.0
	bromodichloromethane	0.61	22.0
	trans-1,3-dichloropropylene	2.01	NS
*	total petroleum hydrocarbons	15,800	10,000

<u>AREA C</u>	<u>CONTAMINANT</u>	<u>CONCENTRATION (PPM)</u>	<u>SCC (ppm)</u>
	1,2-dichloroethane	0.32	1,000
	1,1,1-trichloroethane	0.07	3,800
	cis-1,3-dichloropropylene	0.04	NS
	tetrachloroethane	0.09	NS
*	arsenic	2.85	2.0
	barium	20.8	26,000
	cadmium	0.98	4.0
	chromium	24.0	NS
	mercury	0.13	260.0
	lead	141.0	600.0

\* In excess of the Department's Soil Cleanup Criteria  
for Non Residential Direct Contact

**SSC** - Soil Cleanup Criteria

h. **QA/QC:** Quality Assurance/Quality Control was conducted by BCM. It is unclear whether the Department reviewed the laboratory data for QA/QC.

i. **File location:** Attachment A  
NJDEPE, DPFSR, SA  
300 Horizon Center  
Robbinsville, NJ

2. a. **Sampling date:** October 13, 1993

b. **Sampled by:** NJDEPE, DPFSR, SA  
300 Horizon Center  
Robbinsville, NJ

c. **Samples:** (9) soil

d. **Laboratory:** NYTEST Environmental Inc.  
60 Seaview Blvd.  
Port Washington, NY

**Certification No.** 73469

e. **Parameters:** volatile organics, base neutrals, pesticides, metals, cyanides, total petroleum hydrocarbons, polychlorinated biphenyls (PCBs)

f. **Sample description:**

- (2) adjacent to the former outdoor drum storage rack  
0 to 24"
- (1) runoff from the indoor drum storage rack  
0 to 24"
- (1) adjacent to excavated drum carcass  
0 to 24"
- (1) adjacent to the 10,000-gallon aboveground storage tank  
0 to 24"
- (4) indoor floor trenches  
0 to 24"

g. **Contaminants Detected:**

<u>SAMPLE #</u>	<u>CONTAMINANT</u>	<u>CONCENTRATION (ppm)</u>	<u>SCC (ppm)</u>
S-1	4,4' - DDE	0.08	9.0
	Aroclor 1260	0.17	2.0
*	arsenic	8.2	2.0
	TPHCs	729.0	10,000
S-2	phenanthrene	0.51	NS
	fluoranthene	0.73	1,000
	pyrene	0.74	10,000

<u>SAMPLE #</u>	<u>CONTAMINANT</u>	<u>CONCENTRATION (ppm)</u>	<u>SCC (ppm)</u>
S-2	chrysene	0.49	2.5
	Aroclor 1260	0.46	2.0
	* arsenic	4.2	2.0
	TPHCs	508.0	10,000
S-3	1,2-dichloroethene	0.047	1,000
	trichloroethene	0.14	NS
	2-hexanone	0.22	NS
	2-methylnaphthalene	1.9	NS
	phenanthrene	3.4	NS
	di-n-butylphthalate	8.1	10,000
	* arsenic	4.9	2.0
	TPHCs	9,460.0	10,000
S-3RE	2-methylnaphthalene	2.2	NS
S-4	dimethyl phthalate	3.6	10,000
	* arsenic	8.4	2.0
	* lead	788.0	600.0
	TPHCs	357.0	10,000
S-5	4,4'-DDT	0.6	9.0
	* arsenic	8.1	2.0
	* antimony	827.0	340.0
	* TPHCs	235,000.0	10,000
S-6	dimethyl phthalate	2.2	10,000
	diethyl phthalate	0.51	10,000
	aroclor 1260	0.2	2.0
	* antimony	726.0	340.0
	* arsenic	13.5	2.0
	* lead	3,810.0	600.0
	TPHCs	1,320.0	10,000
S-6RE	dimethyl phthalate	9.3	10,000
	diethyl phthalate	2.5	10,000
S-7	endosulfan I	0.04	52.0
	TPHCs	1,270.0	10,000
S-8	2,6-dinitrotoluene	2.0	NS
	phenanthrene	5.8	NS
	fluoranthene	6.4	NS
	pyrene	7.6	10,000
	benzo(a)anthracene	3.7	2.5
	* chrysene	4.8	2.5
	* benzo(b)fluoranthene	3.2	2.5
	* benzo(k)fluoranthene	3.2	2.5
	* benzo(a)pyrene	3.7	0.66
	* indeno(1,2,3-cd)pyrene	2.6	2.5
	* benzo(g,h,i)perylene	2.5	2.5



<u>SAMPLE #</u>	<u>CONTAMINANT</u>	<u>CONCENTRATION (ppm)</u>	<u>SCC (ppm)</u>
S-8	endosulfan I	0.21	52.0
	* antimony	465.0	340.0
	* arsenic	21.0	2.0
	* lead	1,410.0	600.0
	TPHCs	481.0	10,000
S-8RE	2,6-dinitrotoluene	2.2	NS
	phenanthrene	6.3	NS
	fluoranthene	6.8	NS
	pyrene	7.7	10,000
	* benzo(a)anthracene	3.7	2.5
	* chrysene	4.8	2.5
	* benzo(b)fluoranthene	4.0	2.5
	* benzo(k)fluoranthene	3.4	2.5
	* benzo(a)pyrene	3.7	0.66
	* indeno(1,2,3-cd)pyrene	2.8	2.5
	* benzo(g,h,i)perylene	2.6	2.5
S-9	toluene	0.019	1,000
	phenanthrene	17.0	NS
	anthracene	4.2	10,000
	fluoranthene	19.0	NS
	pyrene	13.0	10,000
	* benzo(a)anthracene	8.8	2.5
	* chrysene	8.3	2.5
	* benzo(b)fluoranthene	6.2	2.5
	* benzo(k)fluoranthene	4.1	4.0
	* benzo(a)pyrene	6.5	0.66
	* arsenic	41.3	2.0
	TPHCs	502.0	10,000
S-10	di-n-butyl phthalate	1.3	10,000
	* 4,4'-DDD	0.30	12.0
	* arsenic	4.2	2.0
	TPHCs	655.0	10,000

\* Indicates contaminants found in concentrations above the Department's Soil Cleanup Criteria for Non Residential Direct Contact

SCC - Soil Cleanup Criteria

h. QA/QC: Roy F. Weston Inc.  
1 Weston Way  
Westchester, Pa.  
Attachment V

i. File location: Attachment U  
NJDEPE, DPFSR, SA  
300 Horizon Center  
Robbinsville, NJ

#### **PART XIV: CONCLUSIONS AND RECOMMENDATIONS**

Soil sampling results collected by the NJDEPE on October 13, 1993 indicate the presence of contaminants such as arsenic, lead, antimony and total petroleum hydrocarbons in excess of the Department's Soil Cleanup Criteria from each area of concern sampled. These results indicate the need for further sampling to delineate the extent of contamination and the necessity for soil excavation and disposal. The impact of the contaminated soil on ground water and the adjacent Delaware River are unknown and may also require further investigation. However, no further action under CERCLA is recommended at this time.

**Submitted by:** David E. Triggs

**Title:** HSMS II

NJDEPE, Division of Publicly Funded Site Remediation - Site Assessment Section

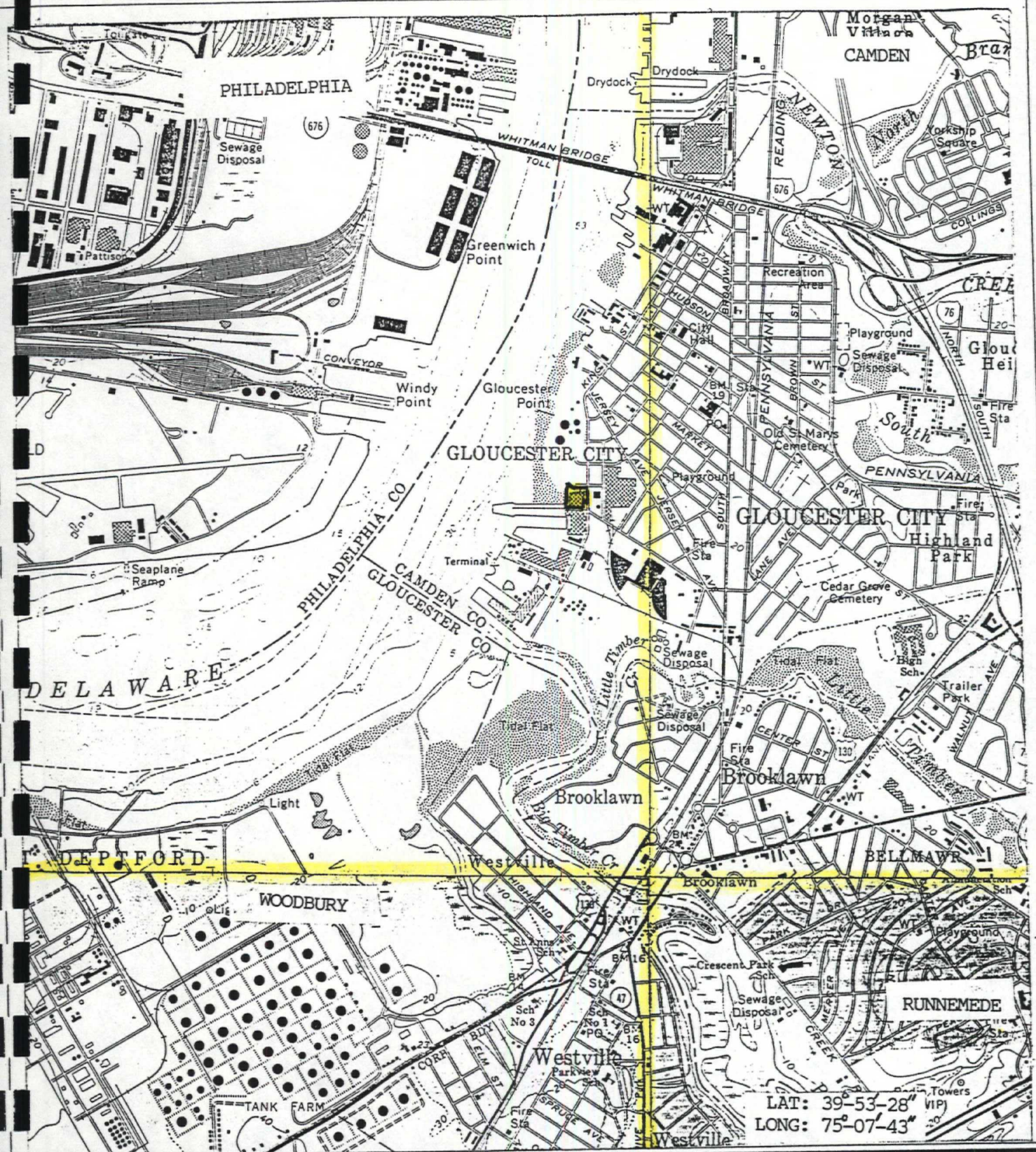
**Date:** November 30, 1993

**PART XV: POTENTIALLY RESPONSIBLE PARTIES**

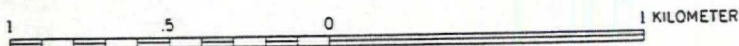
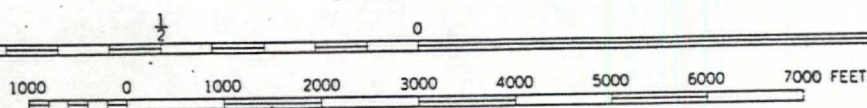
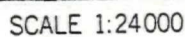
<u>NAME</u>	<u>OWNER/OPERATOR/ KNOWN DISCHARGER</u>	<u>CURRENT ADDRESS</u>
Vanguard Vinyl Siding	Owner and Operator	No longer in business
GAF Corp.	Merger with former owner Ruberoid Company	Water Street Gloucester City New Jersey, 08030
Ruberoid Co.	Owner and Operator	unknown
Lang Mills	Owner and Operator	No longer in business
Pusey and Jones Shipyard	Owner and Operator	No longer in business

MAPS





LAT: 39°-53'-28" VIP  
LONG: 75°-07'-43" 20

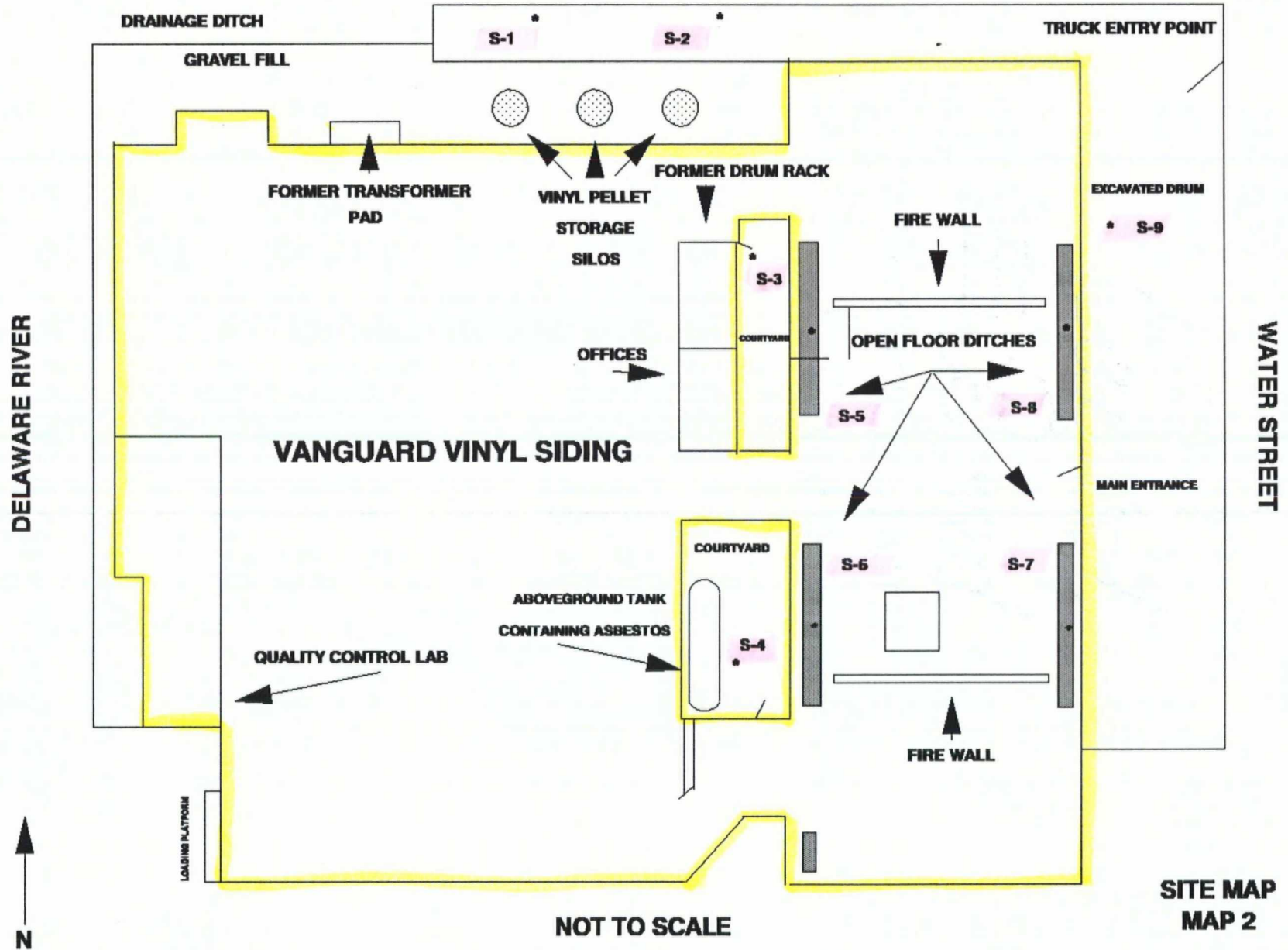


CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

VANGUARD VINYL SIDING, INC.  
CHARLES AND WATER STREETS  
GLOUCESTER CITY, CAMDEN COUNTY  
USGS TOPOGRAPHIC MAPS  
MAP-1



# KOCH FUELS



RIVER

PLATE

~~PLATE~~

CITY OF GLOUCESTER  
CAMDEN COUNTY, NEW JERSEY

CAMDEN COUNTY, NEW JERSEY

Plotted from Surveys & Records  
by

Remington & Vosbury, Civil Engineers.  
Camden, N. J.

July, 1929

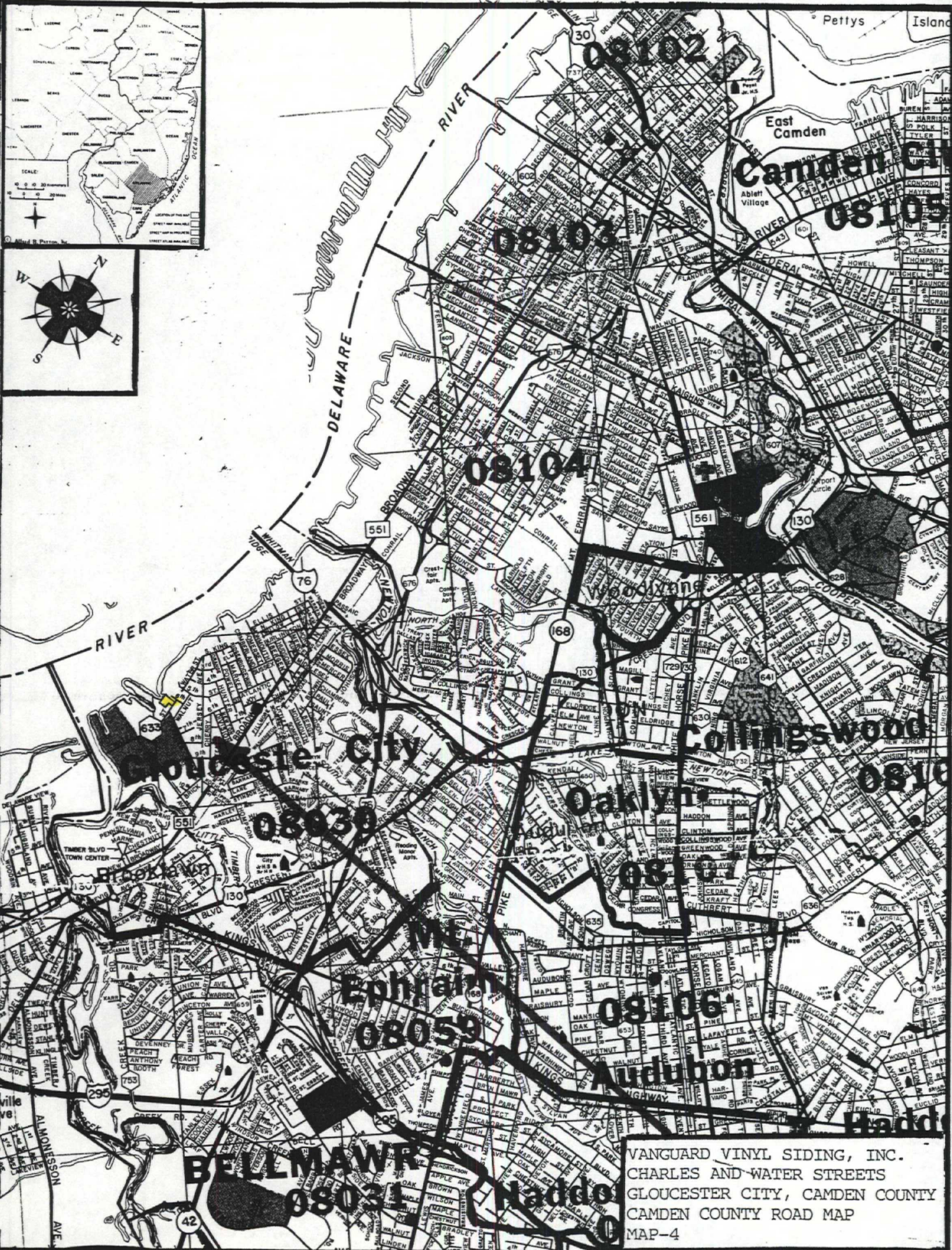
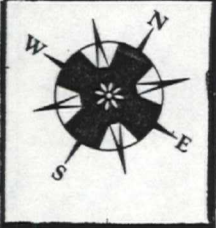
Camden, N. J.

July, 1929

VANGUARD VINYL SIDING, INC.  
CHARLES AND WATER STREETS,  
GLOUCESTER CITY, CAMDEN COUNTY  
CITY OF GLOUCESTER TAX MAP  
MAP -3

443-1, 1976, Oct. 1, 1977, 1980, 1





VANGUARD VINYL SIDING, INC.  
CHARLES AND WATER STREETS  
GLOUCESTER CITY, CAMDEN COUNTY  
CAMDEN COUNTY ROAD MAP  
MAP-4



WATER WITHDRAWAL  
POINTS AND  
NJGS CASE INDEX  
SITES WITHIN  
5.0 MILES OF:

LATITUDE 395328  
LONGITUDE 750743

DRAFT

SCALE: 1:63,360  
(1/32 Inch = 1 Mile)

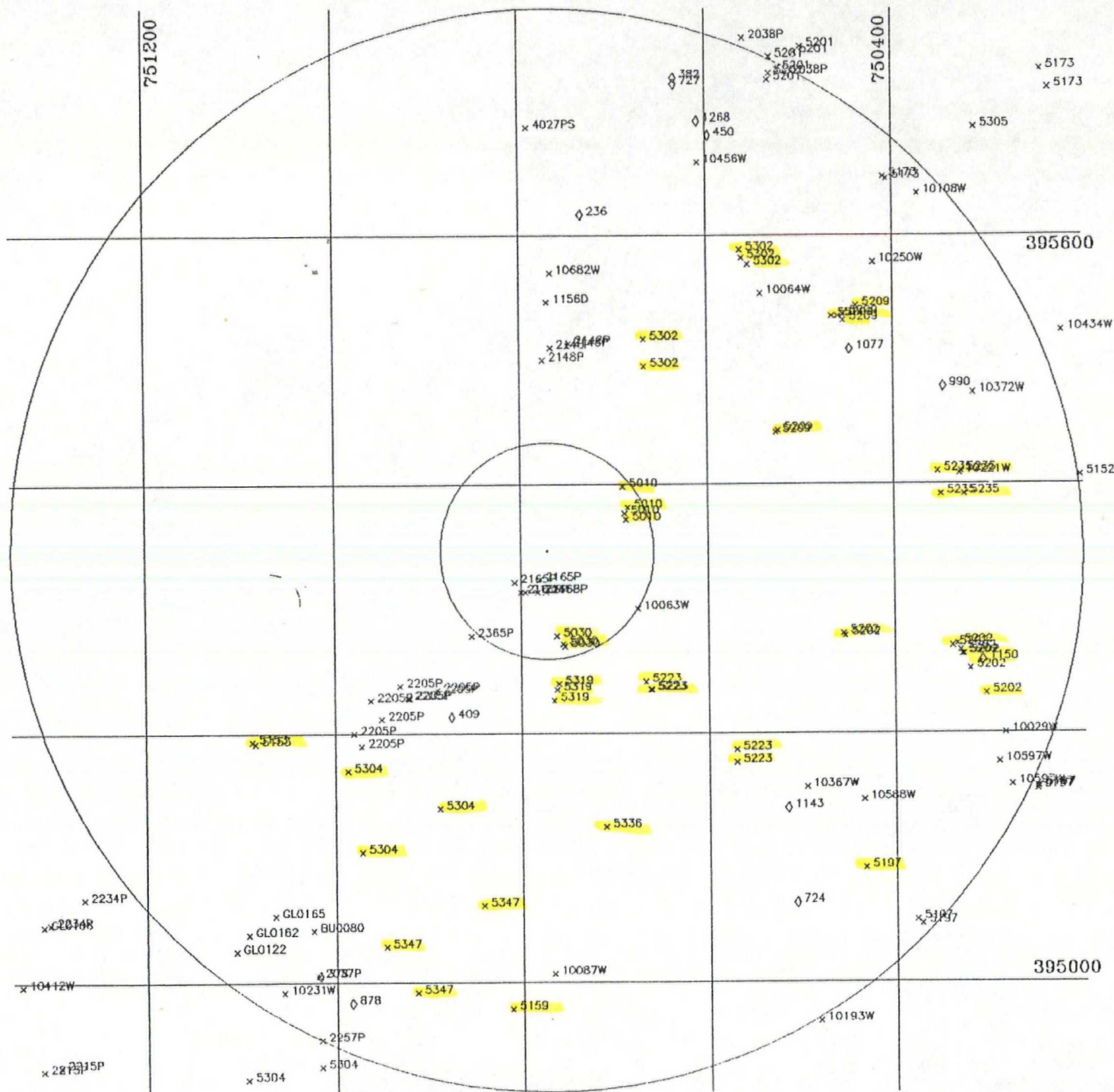
x WATER WITHDRAWAL POINTS  
 O NJGS CASE INDEX SITES  
 1 MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM:  
NEW JERSEY GEOLOGICAL SURVEY  
ON 12/22/87

PLOT PRODUCED BY:  
NJDEPE  
WATER TECHNICAL PROGRAMS  
BUREAU OF WATER ALLOCATION  
CN-029  
TRENTON, NJ 08625

DATE: 03/04/92

SUBJECT TO REVISION



WATER WITHDRAWAL POINTS MAP  
MAP-5



NUMBER	NAME	SOURCEID	LOCID	LAT	LOX	LLACC	DISTANCE	COUNTY	MLN	DEPTH	GEO1	GEO2	CAPACITY
10029W	MEYERHOLZER PAPER COMPANY	3105360	1	395200	750230	F	4.6	07	03	285	GHR		243
10063W	GLOUCESTER CITY BD. OF ED.	3104482	1	395300	750645	F	1.0	07	14		GHR		
10064W	OUR LADY OF LOURDES MED. CENT.	3104620	1	395332	750525	F	3.1	07	08	257	GHR		250
10087W	DEPTWOOD SHOPPING CENTER	3102728	1	395004	750740	F	3.9	15	22	221	GHR		300
10108W	CAMDEN CO VOC. & TECH. SCHOOLS	3105139	1	395620	750344	F	4.8	07	15	401	GHR		
10193W	GLOUCESTER TWP. M.U.A.	3105902	2	394941	750449	T	5.0	07	15		GHR		
10221W	HADDON TOWNSHIP BOARD OF ED.	3104986	1	395405	750318	T	3.9	07	16	165	GHR		100
10231W	WOODBURY COUNTRY CLUB	3103393	1	394955	751031	F	4.8	15	22		GHR		
10230W	BISHOP EUSTACE PREP SCHOOL	3117824	1	395347	750413	T	4.1	07	27	150	GHR		200
10367W	TRAP ROCK INDUSTRIES, INC.	3104633	1	395134	750457	F	3.3	07	30	222	GHR		175
10372W	MORGAN BROTHERS, INC.	3105138	1	395444	750309	F	4.3	07	16	451	GHR		300
10412W	WHITE SWAN MOBILE HOMES	3002737	1	394958	751320	F	6.3	15	20	178	GHR		70
10434W	GARDEN STATE RACE TRACK, INC.	5100094	1	395514	750213	T	5.2	07	09	154	GHR		300
10454W	CONDOR CHEMICAL CO., INC.	5100154	1	395635	750605	F	3.9	07	08	140	GHR		400
10588W	COMFORT INN	3129702		395128	750421	M	3.7	07	30		GHR		30
10597W	OWENS-CORNING FIBERGLAS CORP.	3102492	1	395146	750254	F	4.6	07	03	318	GHR		1000
	OWENS-CORNING FIBERGLAS CORP.	3102493	2	395135	750246	F	4.8	07	23	332	GHR		1000
10682W	KAPLAN & ZUBERIN, INC.	3102058	1	395542	750740		2.6	07	08	142	GHR		95
11540	CAMDEN COUNTY MUA			395328	750742	F	2.3	07	03	55	GHR		1200
2037P	ATOCHEM INC., ELF AGUITAINE GR	3117980	WELL NO. 2	395003	751012	1	4.5	15	20	142	GHR		250
	ATOCHEM INC., ELF AGUITAINE GR	3103864	WELL NO. 3	395003	751012	1	4.5	15	20	145	GHR		250
2038P	GENERAL COLOR CO.	3119275	7	395735	750535		5.1	07	08	194	GHR		190
	GENERAL COLOR CO.	3105064	6	395718	750507		5.0	07	08	184	GHR		0
2148P	MAC ANDREWS & FORBES COMPANY	3100290	1	395507	750729	F	1.9	07	08	103	GHR		300
	MAC ANDREWS & FORBES COMPANY	5100035	2	395500	750745		1.8	07	99		GHR		350
	MAC ANDREWS & FORBES COMPANY	3123380	2R	395508	750720	F	1.9	07	08	140	GHR		350
	MAC ANDREWS & FORBES COMPANY			395506	750740	U	1.9	07	08		SDDEL		
2165P	G & W NATURAL RESOURCES GROUP	3106442	1R	395314	750748	F	0.3	07	14	261	GHR		600
	G & W NATURAL RESOURCES GROUP	3101210	2	395308	750757	F	0.4	07	14	280	GHR		600
	G & W NATURAL RESOURCES GROUP	3103401	3	395313	750804	F	0.4	07	14	255	GHR		600
	G & W NATURAL RESOURCES GROUP	3103402	4	395308	750744	F	0.4	07	14	281	GHR		600
	G & W NATURAL RESOURCES GROUP	3104454	5	395308	750749	F	0.4	07	14	274	GHR		600
	G & W NATURAL RESOURCES GROUP	BIG TIMBER CR.		395308	750800	U	0.5	07	14		SDBIG		
2206P	COASTAL EAGLE POINT OIL CO.	3100007	1	395217	750913	1	1.9	15	20	288	GHR		800
	COASTAL EAGLE POINT OIL CO.	3100009	2	395207	750930	1	2.2	15	20	287	GHR		800
	COASTAL EAGLE POINT OIL CO.	3100008	3	395223	750918	1	1.9	15	20	288	GHR		600
	COASTAL EAGLE POINT OIL CO.	3110647	4A	395216	750937	1	2.2	15	20	296	GHR		1000
	COASTAL EAGLE POINT OIL CO.	3100028	5	395221	750854	1	1.6	15	20	283	GHR		600
	COASTAL EAGLE POINT OIL CO.	3117788	6A	395154	750943	1	2.5	05	20	335	GHR		1000
	COASTAL EAGLE POINT OIL CO.	3106834	7	395200	750948	1	2.5	15	20	306	GHR		1000
	COASTAL EAGLE POINT OIL CO.	DELAWARE RIVER		395217	750912	U	1.9	15	20		SDDEL		9500
	COASTAL EAGLE POINT OIL CO.	3123046	FM-1	395217	750912		1.9	15	20	80	GHR		110
	COASTAL EAGLE POINT OIL CO.	3125762	147-2	395220	750855		1.7	15	20	55	GHR		10
2215P	HUNTSMAN POLYPROPYLENE CORP.	3000898	WELL NO. 1	394917	751307	1	6.7	15	20	360	GHR		850
	HUNTSMAN POLYPROPYLENE CORP.	3000999	WELL NO. 2	394917	751307	1	6.7	15	20	290	GHR		200
	HUNTSMAN POLYPROPYLENE CORP.	3000900	WELL NO. 3	394919	751256	1	6.6	15	20	384	GHR		850
	HUNTSMAN POLYPROPYLENE CORP.	3000901	WELL NO. 4	394919	751256	1	6.6	15	20	157	GHR		850
2234P	AUSIMONT USA, INC.	3001173	418	395028	751302	1	5.8	15	20	290	GHR		500
	AUSIMONT USA, INC.	3001174	417	395040	751240	1	5.4	15	20	278	GHR		1000
2257P	WESTWOOD GOLF CLUB	3106200	1	394932	751010	1	5.0	15	22	140	GHR		450
2365P	SES GLOUCESTER COMPANY, L.P.	DELAWARE RIVER	FM 95.2	395247	750832	T	1.1	20	15		SDDEL		
4027PS	GENERAL ELECTRIC AEROSPACE	DELAWARE RIVER		395652	750754	T	3.9	07	08		SDDEL		
5010	GLOUCESTER CITY	3104506	WELL #40	395349	750651		0.9	07	14	262	GHR		1000
	GLOUCESTER CITY	3127737	WELL #41	395359	750654		0.9	07	14	269	GHR		1000
	GLOUCESTER CITY	3106242	WELL #42	395349	750652		0.9	07	14	268	GHR		1000



NUMBER	NAME	SOURCEID	LOCID	LAT	LEN	ELACC	DISTANCE	COUNTY	MIN	DEPTH	GEO1	GEO2	CAPACITY
5030	BLOOMSBURY CITY	3118822	WELL #43	395345	750653		0.8	07	14	260	GRR		1000
	BROOKLAWN BOROUGH WATER DEPT.	3104325	1	395242	750732	F	0.9	07	07	327	GRR		300
	BROOKLAWN BOROUGH WATER DEPT.	3114471	3	395243	750733	F	0.9	07	07	320	GRR		350
	BROOKLAWN BOROUGH WATER DEPT.	3115765	4	395247	750737	F	0.6	07	07	293	GRR		350
5152	HADDONFIELD BOROUGH	3105108	6	395404	750202		5.0	07	17	380	GRR		1000
5153	NATIONAL PARK BOROUGH	3102555	5	395155	751053	1	3.3	15	12	282	GRR		700
	NATIONAL PARK BOROUGH	3117939	6	395155	751051	1	3.3	15	12	275	GRR		600
5159	ROSELAND HEIGHTS BOROUGH	3106356	1	394947	750837	1	4.2	15	23	235	GRR		1000
5173	MERCHANTVILLE-PENNSAUKEN WATER	3105641	BROWNING1A	395627	750404		4.7	07	24	152	GRR		875
	MERCHANTVILLE-PENNSAUKEN WATER	3102915	VARION 1	395720	750225		6.4	07	27	279	GRR		1000
	MERCHANTVILLE-PENNSAUKEN WATER	3104641	VARION 2	395711	750220		6.4	07	27	262	GRR		1000
	MERCHANTVILLE-PENNSAUKEN WATER	3104836	BROWNING2A	395628	750406		4.7	07	27	140	GRR		900
5197	NEW JERSEY-AMERICAN WATER CO.	3104743	MAGNOLIA16	395134	750239	F	5.1	07	23	510	GRR		1050
	NEW JERSEY-AMERICAN WATER CO.	3105100	MAGNOLIA33	395134	750230	F	5.1	07	23	348	GRR		1050
	NEW JERSEY-AMERICAN WATER CO.	5100015	RUEDE 7	395155	750420	F	4.2	07	30	319	GRR		325
	NEW JERSEY-AMERICAN WATER CO.	3103307	RUEDE 19	395055	750420	F	4.2	07	30	338	GRR		770
	NEW JERSEY-AMERICAN WATER CO.	3104756	OTTER 29	395030	750347	F	4.8	07	15	722	GRR		1050
	NEW JERSEY-AMERICAN WATER CO.	3105041	OTTER 34	395028	750344	F	4.9	07	15	377	GRR		1050
	NEW JERSEY-AMERICAN WATER CO.	3105226	OTTER 39	395030	750347	F	4.8	07	15	349	GRR		1400
	NEW JERSEY-AMERICAN WATER CO.	PROPOSED	MAGNOLIA64	395133	750230	F	5.1	07	23		GRR		1040
5201	NEW JERSEY-AMERICAN WATER CO.	3103456	50	395726	750518	F	5.0	07	08	170	GRR		700
	NEW JERSEY-AMERICAN WATER CO.	3104790	51	395720	750513	F	4.9	07	08	192	GRR		1300
	NEW JERSEY-AMERICAN WATER CO.	3104847	52	395715	750519	F	4.8	07	08	198	GRR		1050
	NEW JERSEY-AMERICAN WATER CO.	3118947	53	395728	750502	F	5.2	07	08	194	GRR		1000
	NEW JERSEY-AMERICAN WATER CO.	3118944	54	395731	750458	F	5.2	07	08	195	GRR		1000
	NEW JERSEY-AMERICAN WATER CO.	3120270	55	395718	750518	F	4.9	07	08	176	GRR		1050
5202	NEW JERSEY-AMERICAN WATER CO.	5100008	HADDON 11	395243	750320	F	3.9	07	18	272	GRR		700
	NEW JERSEY-AMERICAN WATER CO.	5100009	HADDON 12	395240	750318	F	4.0	07	18	267	GRR		700
	NEW JERSEY-AMERICAN WATER CO.	3101124	HADDON 14	395242	750323	F	3.9	07	18	599	GRR		900
	NEW JERSEY-AMERICAN WATER CO.	3102434	HADDON 15	395238	750316	F	4.0	07	18	597	GRR		800
	NEW JERSEY-AMERICAN WATER CO.	3103375	HADDON 20	395231	750312	F	4.1	07	18	267	GRR		700
	NEW JERSEY-AMERICAN WATER CO.	3104798	HADDON 30	395238	750317	F	4.0	07	18	279	GRR		805
	NEW JERSEY-AMERICAN WATER CO.	3103308	EBBERT 18	395248	750433	F	2.9	07	18	190	GRR		700
	NEW JERSEY-AMERICAN WATER CO.	3105054	EBBERT 35	395247	750432	F	2.9	07	18	484	GRR		700
	NEW JERSEY-AMERICAN WATER CO.	PROPOSED	HADDON 63	395219	750302	F	4.3	07	03	490	GRR		1040
5209	COLLINGSWOOD BOROUGH	3104053	2R	395519	750432		3.5	07	12	281	GRR		700
	COLLINGSWOOD BOROUGH	3104054	3R	395522	750432		3.5	07	12	290	GRR		900
	COLLINGSWOOD BOROUGH	5100030	4	395521	750435		3.5	07	12	304	GRR		870
	COLLINGSWOOD BOROUGH	3100079	5	395521	750439		3.4	07	12	311	GRR		650
	COLLINGSWOOD BOROUGH	5100031	6	395526	750424		3.7	07	12	281	GRR		1000
	COLLINGSWOOD BOROUGH	3104799	7	395521	750439		3.4	07	12	312	GRR		1000
	COLLINGSWOOD BOROUGH	3104797	8	395526	750414		2.9	07	12	313	GRR		1000
	COLLINGSWOOD BOROUGH	NEWTON CREEK		395425	750615		2.4	07	12		SDLOO		1000 NOT USED
5223	BELLMAIR BOROUGH	5100032	1	395221	750636		1.6	07	04	164	GRR		500 NO LONGER IN USE.
	BELLMAIR BOROUGH	3102687	3	395221	750637		1.6	07	04	359	GRR		900
	BELLMAIR BOROUGH	3104969	4	395146	750542		2.6	07	04	557	GRR		1000
	BELLMAIR BOROUGH	3112315	5	395152	750542		2.5	07	04	562	GRR		1000
	BELLMAIR BOROUGH	3119218	6	395225	750640		1.5	07	04	386	GRR		1000
5235	HADDON TOWNSHIP WATER DEPT.	3105243	1A	395401	750317	F	3.9	07	16	481	GRR		870
	HADDON TOWNSHIP WATER DEPT.	3104855	4	395406	750322	F	3.7	07	16	448	GRR		1000
	HADDON TOWNSHIP WATER DEPT.	3129099	2A	395355	750330	F	3.7	07	16	487	GRR		800
	HADDON TOWNSHIP WATER DEPT.	3128696	3A	395355	750315	F	3.9	07	16	475	GRR		750
5302	DANFORTH CITY WATER DIVISION	5100060	CITY 7	395457	750540	F	1.9	07	08	163	GRR		1500 WATER ONLY SERVICES Resource Recovery Plant
	DANFORTH CITY WATER DIVISION	5100061	CITY 11	395510	750640	F	2.2	07	08	159	GRR		1010 - only used in emergencies.
	DANFORTH CITY WATER DIVISION	3105704	CITY 13	395531	750538	F	3.2	07	08	230	GRR		1200
	DANFORTH CITY WATER DIVISION	3105258	CITY 17	395544	750533	F	3.3	07	08	210	GRR		1500



NUMBER	NAME	SOURCEID	LOCID	LAT	LON	ELACC	DISTANCE	COUNTY	MIN	DEPTH	BED1	BED2	CAPACITY
	CAMDEN CITY, WATER DIVISION	3109574	CITY 18	395549	750537	F	3.3	07	08	290	GNR		1200
	CAMDEN CITY, WATER DIVISION	3104549	CITY 5	395457	750640		1.9	07	08	171	GNR		1100-used for G.W. monitoring.
5304	WEST DEPTFORD WATER DEPT.	3104231	2	395142	750752	S	2.8	15	20	353	GNR		84-No longer in use.
	WEST DEPTFORD WATER DEPT.	3103021	3	394919	751010	S	5.2	15	20	243	GNR		750
	WEST DEPTFORD WATER DEPT.	3107056	5	394913	751057	S	5.5	15	20	440	GNR		1000
	WEST DEPTFORD WATER DEPT.	5100063	6	395103	750943	S	3.3	15	20	366	GNR		1000
	WEST DEPTFORD WATER DEPT.	3117452	7	395124	750653	S	2.6	15	20	353	GNR		1000
5305	MERCHANTVILLE-PENNSAUKEN	3104642	WOODBINE 1	395652	750307		5.5	07	24	258	GNR		1000
	MERCHANTVILLE-PENNSAUKEN	3114563	WOODBINE 2	395652	750307		5.5	07	24	227	GNR		1000
5319	WESTVILLE BOROUGH	3103418	4	395221	750737	F	1.3	15	21	313	GNR		750
	WESTVILLE BOROUGH	3105689	5	395216	750739	F	1.4	15	21	274	GNR		1000
	WESTVILLE BOROUGH	3117923	6	395224	750736	F	1.2	15	21	317	GNR		1000
5336	DEPTFORD TOWNSHIP MUA	3105513	4	395115	750706		2.6	15	02	363	GNR		700
5347	WOODBURY CITY WATER DEPT.	5100100	3	395017	750928	F	4.0	15	22	188	GNR		700
	WOODBURY CITY WATER DEPT.	3104089	5	394955	750908	F	4.3	15	22	457	GNR		1000
	WOODBURY CITY WATER DEPT.	3307973	6	395037	750825	F	3.3	15	22	305	GNR		1000
EL0090	BAKNER, JOHN & RUTH ANN	5100125	WELL 1	395025	751015	F	4.1	05	32	45	BTCH		1000
	BAKNER, JOHN & RUTH ANN	3213727	WELL 2	395025	751015	F	4.1	05	32	87	BTCH		
	BAKNER, JOHN & RUTH ANN	POND 1	POND 1	395025	751015	F	4.1	05	32	25	BTCH		
EL0106	NO LONGER FARMS	STREAM 1		395027	751306	U	5.8	15					
EL0122	MARPLE, JOHN	MATTHEWS DR.	POND 1	395015	751104	F	4.7	15	20	2	SD		1000
	MARPLE, JOHN	STREAM 1		395015	751104	F	4.7	15	20		SD		1000
EL0162	DE HART, CHARLES JR.	WOODBURY CREEK	STREAM 1	395023	751056	F	4.5	15	20		SD		
EL0165	DE HART PARTNERS	POND	1	395032	751039	M	4.2	15	20	9	SD		1000

Number of Observations: 103

WATER WITHDRAWAL POINTS  
REFERENCE SHEET

THE FOLLOWING CODES DENOTE THE TYPE OF WELL OR SURFACE WATER INTAKE  
AS LISTED ON WATER WITHDRAWAL POINTS MAPS.

- 1000D - DEWATERING PERMIT OR TEMPORARY PUMPING PERMIT
- 2000 - INDUSTRIAL PERMITS, GOLF COURSES AND REMEDIATION PUMPING  
PERMITS
- 4000 - SURFACE DIVERSION AND SURFACE WATER INTAKES
- 5000 - PUBLIC WATER SUPPLY WELLS
- 10000 - WELLS WITH THE CAPACITY TO PUMP >100,000 GALLONS BUT DO  
NOT
- XX0000 - AGRICULTURAL CERTIFICATION, FIRST TWO LETTERS ARE THE  
FIRST TWO LETTERS OF THE COUNTY IN WHICH THE PERMIT IS  
ISSUED.

- P - PRIVATE WELL
- PS - PRIVATE SURFACE INTAKE



PHILADELPHIA, PA.-N. J.

WETLANDS MAP

MAP 6A

RESERVE BASIN

League Island

MUSTIN (Inactive) FIELD

U.S. NAVAL RESERVATION

PHILADELPHIA CO

CAMDEN CO

DELAWARE

PENNSYLVANIA

NEW JERSEY

VANGUARD VINYL SIDING, INC.

CHARLES AND WATER STREETS

GLOUCESTER CITY, CAMDEN COUNTY

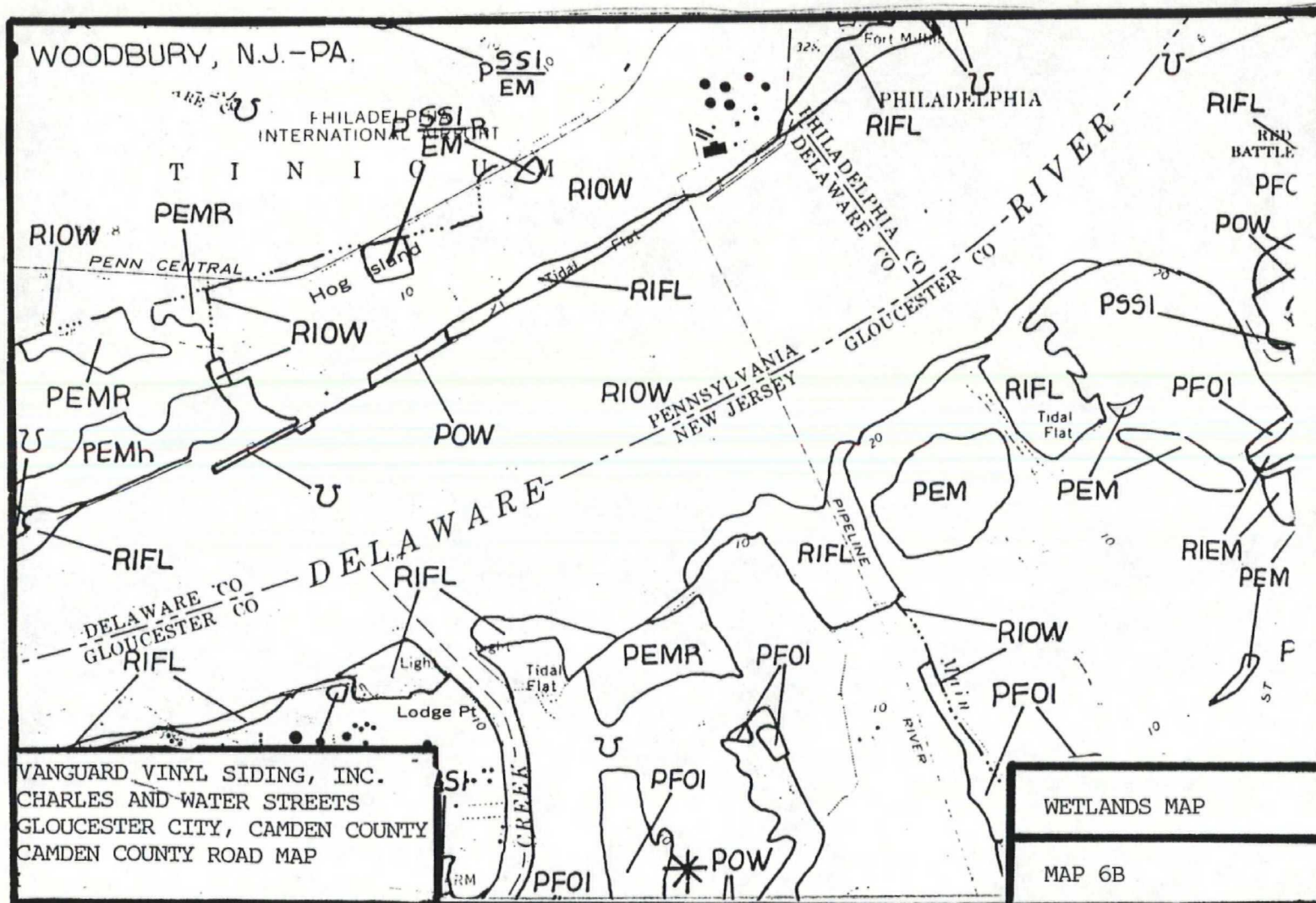
CAMDEN COUNTY ROAD MAP

MAP 6A

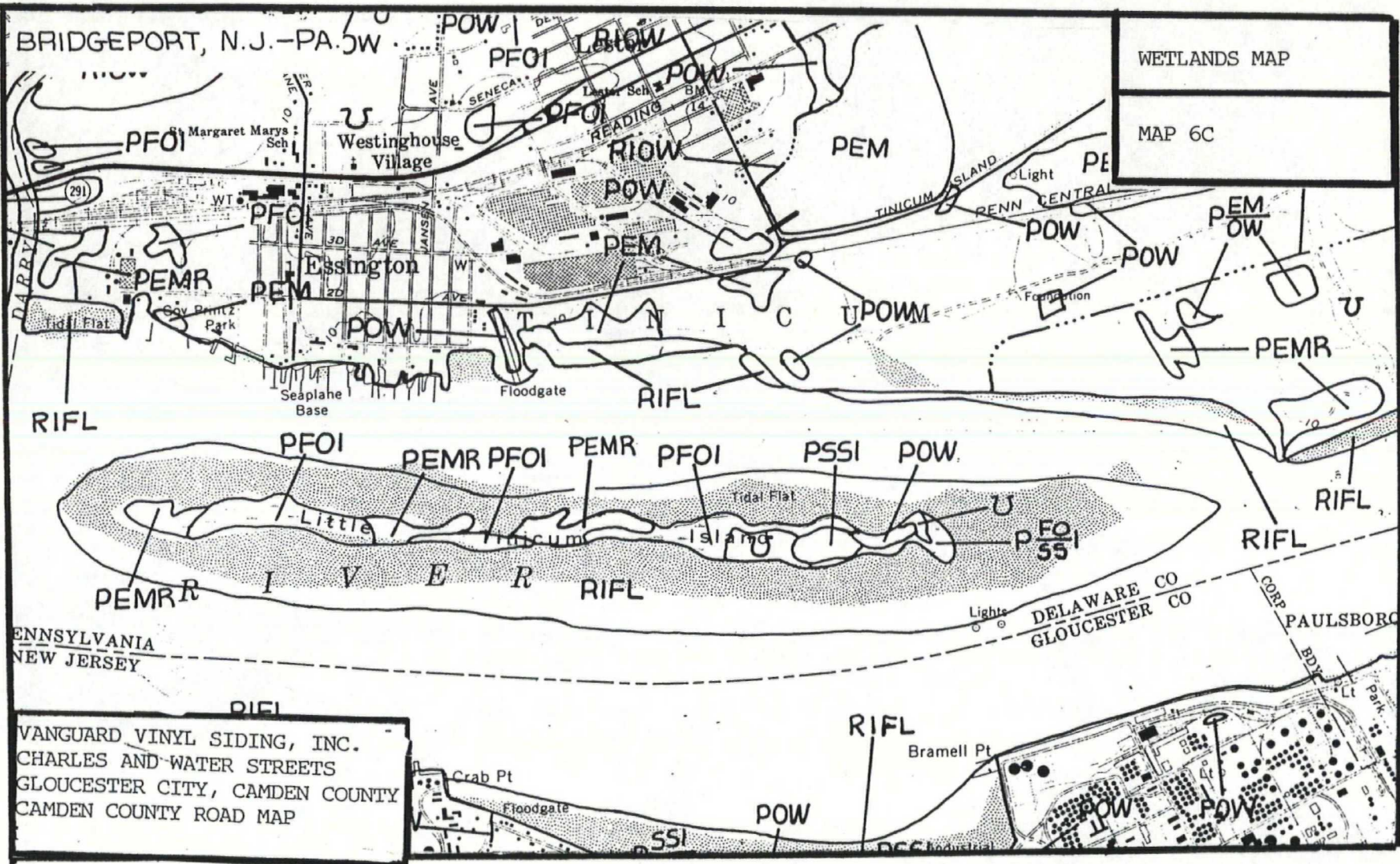
VANGUARD VINYL SIDING, INC.  
CHARLES AND WATER STREETS  
GLOUCESTER CITY, CAMDEN COUNTY  
CAMDEN COUNTY ROAD MAP

VANGUARD VINYL SIDING, INC.  
CHARLES AND WATER STREETS  
GLOUCESTER CITY, CAMDEN COUNTY  
CAMDEN COUNTY ROAD MAP









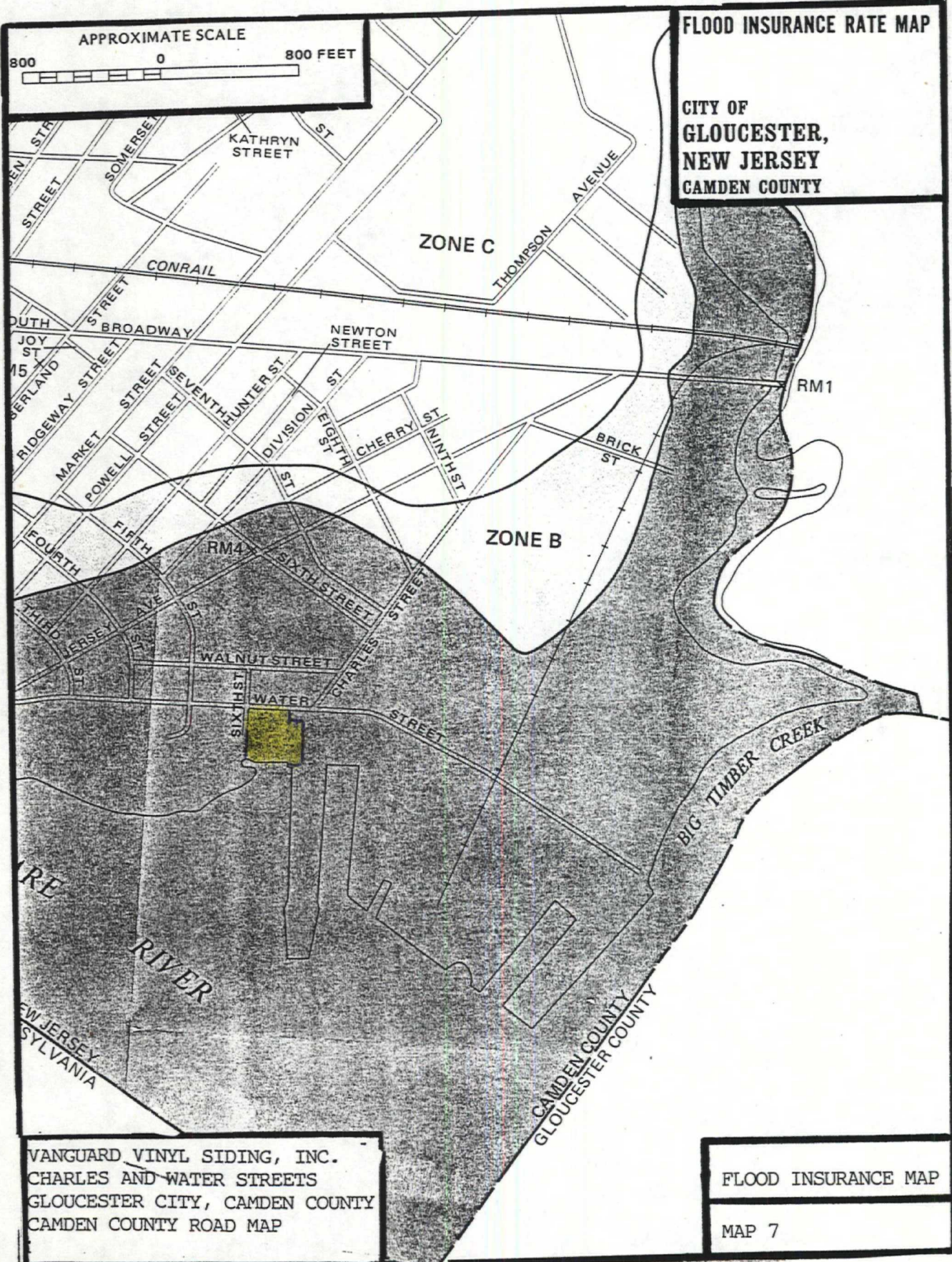
BRIDGEPORT, N.J.-PA. JW

WETLANDS MAP

MAP 6C

VANGUARD VINYL SIDING, INC.  
CHARLES AND WATER STREETS  
GLOUCESTER CITY, CAMDEN COUNTY  
CAMDEN COUNTY ROAD MAP





ATTACHMENT A

**VANGUARD VINYL SIDING, INC.**  
Gloucester City, NJ

**ECRA General Information  
and  
Site Evaluation Submissions**

**TO**

**BUREAU OF INDUSTRIAL EVALUATION  
DIVISION OF WASTE MANAGEMENT  
N.J. DEPT. OF ENVIRONMENTAL PROTECTION**

**September 1985**



Engineers, Planners and Scientists

ATTACHMENT A-1

One Plymouth Meeting

Plymouth Meeting, PA 19462

Phone: (215) 825-3800

85569

RECEIVED

SEP 16 10 09 AM '85

DIVISION OF  
WASTE MANAGEMENT  
HSHW-1151

ECRA  
GENERAL INFORMATION

AND

SITE EVALUATION

SUBMISSIONS

FOR

VANGUARD VINYL SIDING, INC.  
GLOUCESTER CITY, NEW JERSEY

SEPTEMBER 1985

BCM PROJECT NO. 00-4357-01



Engineers, Planners and Scientists

One Plymouth Meeting • Plymouth Meeting, PA 19462 • Phone: (215) 825-3800

ATTACHMENT A-2

# CONTENTS

## CONTENTS

### GENERAL INFORMATION SUBMISSION

### SITE EVALUATION SUBMISSION

- Appendix 1 Discussion of Initiating Transaction
- Appendix 2 Site Map
- Appendix 3 Description of Operations
- Appendix 4 Inventory and Storage of Materials
- Appendix 5 Sampling Plan
  - 5.1 Introduction
  - 5.2 Site Description
  - 5.3 Site Map
  - 5.4 Sampling Locations
  - 5.5 Analytical Parameters
  - 5.6 Sampling Protocol
  - 5.7 Analytical Methodology
- Appendix 6 Areas of Concern and Initial Sampling Results
- Appendix 7 Decontamination Procedures
- Appendix 8 Laboratory Quality Assurance/Quality Control Program

BCM

GENERAL INFORMATION SUBMISSION  
(GIS)

ENVIRONMENTAL CLEANUP RESPONSIBILITY ACT (ECRA)

INITIAL NOTICE

GENERAL INFORMATION SUBMISSION (GIS)

This is the first part of a two-part application form. This information must be submitted within 5 days following public release of a decision to close operations or the signing of a sales agreement or option to purchase involving an Industrial Establishment as defined in N.J.S.A. 13:1K-6, the Environmental Cleanup Responsibility Act.

SUBMIT THE ORIGINAL PLUS TWO COPIES OF THIS COMPLETED FORM AND ANY ATTACHMENTS.

Please refer to instructions and N.J.A.C. 7:1-3.7(d) before filling out this form. Answer all questions. Please print or type.

Date: 9-5-85

1. A. Industrial Establishment: Vanguard Vinyl Siding, Inc., A New Jersey corporation undergoing liquidation in the  
Name: United States Bankruptcy Court Telephone No.: None  
Street Address: Charles and Water Streets  
City or Town: Gloucester City State: NJ Zip Code: 08030  
Municipality: Gloucester County: Camden
- B. Tax Lot Number: 3B Tax Block Number: 110
- C. Standard Industrial Classification (SIC) Number: 3079
- D. Current Owner (Property): Vanguard Vinyl Siding, Inc. by its trustee, 757-8100  
Name: Sammuel Natal, Esq. Telephone No.: (609) 428-4600  
Firm: \_\_\_\_\_  
Street Address: 807 Haddon Avenue  
Municipality: Haddonfield State: NJ Zip Code: 08033
- E. Current Operator of Industrial Establishment:  
Name: Not in operation Telephone No.: \_\_\_\_\_  
Firm: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
Municipality: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_
- F. Current Owner (Business, if different from operator):  
Name: Not in operation Telephone No.: \_\_\_\_\_  
Firm: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
Municipality: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

FOR DEP USE ONLY

Date Rec'd. \_\_\_\_\_ Notice No. \_\_\_\_\_

ATTACHMENT A-5



G. If the Industrial Establishment discharges sanitary and/or industrial wastes to a publicly-owned ~~plant~~ plant, provide the name and address of that facility.

Name: Gloucester City Sewage Authority Telephone No.: (609) 456-39

Street Address: 512 Monmouth Street

Municipality: Gloucester City State: NJ Zip Code: 08030

Is a septic system used (or used previously) at the site? ☐ Yes ☒ No

H. Has an ECRA application been filed for this Industrial Establishment or location subsequent to ~~any~~ 1984? ☐ Yes ☒ No If so, when? \_\_\_\_\_

For what reason \_\_\_\_\_

Final disposition \_\_\_\_\_

I. How is this Industrial Establishment heated? (gas, oil, electricity) Electricity

2. List previous activities at the location(s) involved (attach additional sheets if necessary). In addition describing the activities, list the business name(s), current address(es) and dates of ownership/operation the previous activity(ies), if known.

GAF Corp., 1361 Alps Road, Wayne, NJ 07470 (Date of acquisition from GAF: 8-11)

- Production of vinyl siding

3. If the transaction initiating an ECRA review is the cessation of operations at this location, fill in the ~~the~~ public release of the decision to close the facility and enclose a copy of the public announcement. Is cessation of operations involved? ☐ Yes ☒ No

Date of the public release of the decision \_\_\_\_\_

Is the public release enclosed? ☐ Yes ☒ No

If you checked "no", state the reason(s) Closure is not the transaction initiating an ECRA review. Refer to Appendix 1 for discussion of initiating transaction.

4. If the transaction initiating an ECRA review is an agreement of sale or option to purchase, fill in the ~~the~~ of the execution of that instrument plus provide a copy of the document \_\_\_\_\_

A. Is a sale involved? ☐ Yes ☒ No See Appendix 1

B. Date of Agreement \_\_\_\_\_

C. Is a copy of the agreement of sale or option to purchase attached? ☐ Yes ☒ No See Appendix 1

If you checked "no", state the reason(s) \_\_\_\_\_

ATTACHMENT A-6



D. Clearly describe the transaction in terms of the action which initiates the ECRA review (e.g., sale of real estate only, sale of real estate and business, cessation of operations only, etc.):

Refer to Appendix 1

E. List other parties (purchasers) to the transaction:

NAME	STREET ADDRESS AND MUNICIPALITY	PHONE NO.

5. Actual date proposed for closure of operations or transfer of title: (See Appendix 1)

6. Authorized agent designated to work with the Department:

Name: Mr. Edward L. Kleinberg, Jr. Telephone No.: 1-800-325-9590

Firm: ITT Diversified Credit Corp.

Street Address: 8251 Maryland Avenue

Municipality: Clayton State: MO Zip Code: 63105

7. List all federal and state environmental permits applied for and received at this facility (attach additional sheets if necessary).

Check here if no permits are involved: ☒

A. New Jersey Bureau of Air Pollution Control

PERMIT NO.	CERTIFICATE NO.	DATE OF APPROVAL OR DENIAL	REASON FOR DENIAL (if applicable)	EXPIRATION DATE

ATTACHMENT A-7

**B. New Jersey Pollutant Discharge Elimination System**

NUMBER	DISCHARGE ACTIVITY	DATE ISSUED OR DENIED	EXPIRATION DATE	BODY OF WATER DISCHARGED INTO
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**C. United States Environmental Protection Agency (EPA) Identification Number and copy of the most recent generator Annual Report prepared pursuant to the New Jersey Hazardous Waste Regulations.**

ID # \_\_\_\_\_

Is a copy of the Annual Report attached? ☐ Yes ☒ No

**D. All other federal, state, local governmental permits.**

AGENCY ISSUING PERMIT	PERMIT NUMBER	DATE OF APPROVAL OR DENIAL	EXPIRATION DATE
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**8. If applicable, identify all administrative orders, temporary or permanent injunctions, civil administrative penalties, or criminal actions concerning the environment issued against the facility, its owners, or managers during the last ten years.**

Check here if no enforcement actions are involved   X  

A. Date of Action \_\_\_\_\_

Section of Law or Statute violated \_\_\_\_\_

Type of Enforcement Action \_\_\_\_\_

Description of the Violation \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

How was the violation resolved? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B. Date of Action \_\_\_\_\_

Section of Law or Statute violated \_\_\_\_\_

Type of Enforcement Action \_\_\_\_\_

Description of the Violation \_\_\_\_\_

How was the violation resolved? \_\_\_\_\_

This application is being submitted by ITT Diversified Credit Corporation for the purposes more fully described in Appendix 1. ITT Diversified Credit Corporation has never owned nor operated the subject facility. The information provided herein has been developed by BCM from available sources. I have no reason to believe that any information provided in this application and any attachments is untrue.

I am aware that false swearing is a crime in this State. I am cognizant that providing false information is a violation under ECRA and that I may be personally liable for penalties up to \$25,000 per day.

  
Signature

Edward L. KLEINBERG, JR.  
Name (Print or Type)

ACCOUNT MANAGER  
Title

SEPTEMBER 11, 1985  
Date

BCM

SITE EVALUATION SUBMISSION  
(SES)

ENVIRONMENTAL CLEANUP RESPONSIBILITY ACT (ECRA)

APPLICATION FOR ECRA REVIEW  
INITIAL NOTICE

SITE EVALUATION SUBMISSION (SES)

This is the second part of a two-part application submittal and must be submitted within 30 days following public release of the decision to close operations or execution of an agreement of sale or option to purchase.

DATE 9-5-85  
NAME OF INDUSTRIAL ESTABLISHMENT Vanguard Vinyl Siding, Inc., A New Jersey corporation  
undergoing liquidation in the United States Bankruptcy Court  
ADDRESS Charles and Water Streets  
CITY OR TOWN Gloucester City ZIP CODE 08030  
MUNICIPALITY Gloucester COUNTY Camden  
NAME OF PROPERTY OWNER Vanguard Vinyl Siding, Inc. by its trustee,  
Sammuel Natal, Esq.  
FIRM: \_\_\_\_\_  
ADDRESS: 807 Haddon Avenue  
CITY OR TOWN: Haddonfield, NJ ZIP CODE: 08033  
MUNICIPALITY Haddonfield COUNTY County CAMDEN

SUBMIT THE ORIGINAL PLUS TWO COPIES OF THE FOLLOWING:

(NOTE: ITEM FOURTEEN (14) REQUIRES THREE COPIES)

9. A scaled site map identifying all areas where hazardous substances or wastes have been or currently are generated, manufactured, refined, transported, treated, stored, handled or disposed, above or below ground.

IS THIS MAP ENCLOSED? ☒ YES (See Appendix # 2) ☐ NO

10. A detailed description of the most recent operations and processes at the industrial establishment organized in the form of a narrative report designed to guide the Department step-by-step through a plant evaluation, with particular emphasis on areas of the process stream where hazardous substances and wastes are generated, manufactured, refined, transported, treated, stored, handled or disposed on site, above or below ground. Also identify any floor drains with their points of discharge, septic systems if applicable, seepage pits and dry wells. Please note that establishments which ceased production prior to December 31, 1983, but are subject to ECRA because of on-going storage beyond that date, must provide details on past operations.

IS THIS REPORT ENCLOSED? ☒ YES (See Appendix # 3) ☐ NO

IF YOU HAVE CHECKED "NO", STATE THE REASON(S): \_\_\_\_\_

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Notice No. \_\_\_\_\_  
A-11

11. A. A description of the types, age (installation date), construction material, capacity, contents, and locations of storage vessels, surface impoundments, landfills, or other types of storage facilities, including drum storage, containing hazardous substances or wastes.

ARE THESE FACILITIES IDENTIFIED ON YOUR SITE MAP OR DESCRIBED IN A NARRATIVE REPORT?

☒ YES (See Appendix # 4) ☐ NO

IF YOU HAVE CHECKED "NO", STATE THE REASON(S): \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- B. The integrity of all underground tanks which contain hazardous wastes or substances must be verified. This may be accomplished in one of several ways: a) Performance of a satisfactory leak test in conformance with Criterion 329 of the National Fire Protection Association, or; b) Performance of subsurface soil investigation (soil borings and analysis), or; c) Excavate and remove the tank and establish the absence of contamination, or; d) other methods approved by the NJDEP.

ARE THE RESULTS OF THE LEAK DETECTION TEST OR THE SUBSURFACE INVESTIGATION ENCLOSED?

☐ YES (See Appendix # \_\_\_\_\_) ☒ NO

IF YOU HAVE CHECK "NO", STATE THE REASON(S): There are no underground tanks at the

Vanguard Vinyl Siding <sup>INC.</sup> Company plant.

\_\_\_\_\_  
 \_\_\_\_\_

12. A complete inventory of hazardous substances and wastes, including description and locations of all hazardous substances or wastes generated, manufactured, refined, transported, treated, stored, handled or disposed on site, above and below ground, and a description of the location, types and quantities of hazardous substances and wastes that will remain on site. (Attach additional sheets if necessary.) Review N.J.A.C. 7:1E, Appendix A and N.J.A.C. 7:26-8 prior to completing to ensure that all defined hazardous materials are included.

MATERIAL	QUANTITY	LOCATION	STORAGE METHOD	TO REMAIN ON SITE (Yes or No)
SEE APPENDIX #4				

13. A. A detailed description, date and location on a scaled map of any known spill or discharge of hazardous substances or wastes that occurred during the historical operation of the site and a detailed description of any remedial actions undertaken to handle any spill or discharge of hazardous substances or wastes. (Attach additional sheets if necessary.)

IS THIS INFORMATION ENCLOSED? ☐ YES (See Appendix # \_\_\_\_\_) ☒ NO

IF YOU HAVE CHECKED "NO", STATE THE REASON(S): There is no record of known spills or remedial actions taken if a spill occurred.

ARE THE SPILLS IDENTIFIED ABOVE INDICATED ON THE SCALED SITE MAP? ☐ YES ☒ NO

IF YOU HAVE CHECKED "NO", STATE THE REASON(S): There were no spills identified above.

13. B. If this facility has an approved Spill Prevention Control and Countermeasure Plan (SPCC), enclose a copy with this submittal.

IS YOUR SPCC PLAN ENCLOSED? ☐ YES (See Appendix # \_\_\_\_\_) ☒ NO, this facility is not required to have an SPCC plan

14. A. A detailed sampling or other environmental evaluation measurement plan which includes proposed soil, groundwater, surface water, surface water sediment, and air sampling determined appropriate for the site. (This sampling plan must be developed in conformance with ECRA Regulations N.J.A.C. 7:1-3.14 et seq., and Quality Assurance Guidelines as developed by DEP)

ARE THREE COPIES OF THE SAMPLING PLAN ENCLOSED? ☒ YES (See Appendix # 5 & #8) ☐ NO QA/QC

IF YOU HAVE CHECKED "NO", STATE THE REASON(S): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

14. B. If the sampling plan includes groundwater sampling and/or the installation of monitoring wells, the applicant must complete a "Request for Hydrogeologic Assessment" form (blank form attached).

IS GROUNDWATER SAMPLING PROPOSED? ☐ YES ☒ NO

IS THE "REQUEST FOR HYDROGEOLOGIC ASSESSMENT" FORM ATTACHED? ☐ YES (See Appendix # \_\_\_\_\_) ☒ NO

IF YOU HAVE CHECKED "NO", STATE THE REASON(S): \_\_\_\_\_

There is no visible evidence of extensive contamination of areas at the site  
that would necessitate the initiation of a groundwater monitoring program.

15. A detailed description of the procedures to be used to decontaminate and/or decommission equipment and buildings involved with the generation, manufacture, refining, transportation, treatment, storage, handling, or disposal of hazardous wastes or substances including the name and location of the transporter, the ultimate disposal facility, and any other organizations involved.

IS THE DETAILED DESCRIPTION ENCLOSED? ☒ YES (See Appendix # 7) ☐ NO

IF YOU HAVE CHECKED "NO", STATE THE REASON(S): \_\_\_\_\_

16. Copies of all previous soil, groundwater and surface water sampling results, including effluent quality monitoring, conducted at the site of the industrial establishment during the history of ownership/operation by the owner or operator. Also include a detailed description of the location, collection, chain of custody, methodology, analyses, laboratory, quality assurance/quality control procedures, and other factors involved in preparation of the sampling results.

ARE HISTORICAL RESULTS ENCLOSED? ☒ YES (See Appendix # 6) ☐ NO

IF YOU HAVE CHECKED "NO", STATE THE REASON(S): \_\_\_\_\_

17. List any other information you are submitting or which has been formally requested by this agency:

No other information is being submitted.

This application is being submitted by ITT Diversified Credit Corporation for the purposes more fully described in Appendix 1. ITT Diversified Credit Corporation has never owned nor operated the subject facility. The information provided herein has been developed by BCM from available sources. I have no reason to believe that any information provided in this application and any attachments is untrue. I am aware that false swearing is a crime in this State. I am cognizant that providing false information is a violation under ECRA and that I may be personally liable for penalties up to \$25,000 per day.

Edw. L. Kleimberg, Jr.  
 Signature

Edw. L. Kleimberg, Jr.  
 Name (Print or Type)

Account Manager  
 Title

9-5-85

Date

ATTACHMENT A-14



BCM

APPENDICES

APPENDIX 1  
DISCUSSION OF INITIATING TRANSACTION  
(GIS ITEMS 3, 4, 5)

DISCUSSION OF INITIATING TRANSACTION

Prior to December 31, 198<sup>3</sup>~~4~~, the parties responsible for this industrial establishment had ceased operations and abandoned the premises. The record owner and operator is Vanguard Vinyl Siding, Inc., a New Jersey corporation that is being liquidated in the United States Bankruptcy Court. The principal and chief operating officer of Vanguard, Robert C. Walther, has also filed for protection under the United States Bankruptcy Code.

ITT Diversified Credit Corp. ("ITT"), the party making this submission, is the holder of a mortgage encumbering this establishment, which mortgage it wishes to foreclose. After being advised that the New Jersey Department of Environmental Protection ("DEP") viewed a foreclosure sale as a triggering event under the Environmental Cleanup Responsibility Act ("ECRA"), ITT found itself with no responsible parties who are legally obligated to comply with ECRA.

Due to its concern over the negative impact that a continuing ECRA compliance requirement would have on the bidding at a sheriff's foreclosure sale, ITT determined to explore the possibilities of obtaining a formal clearance from the ECRA requirements prior to that sale. This submission represents the efforts of an expert retained by ITT to formulate a sampling program acceptable to the DEP so that the establishment may be sold at foreclosure free of any continuing requirements under ECRA.

To our knowledge, however, no transaction has occurred to date that would trigger the ECRA compliance process. A foreclosure proceeding involving this establishment is currently pending in the Camden Superior Court. Under its present plan, ITT will await the outcome of this process before moving the foreclosure proceedings towards a sheriff's sale.

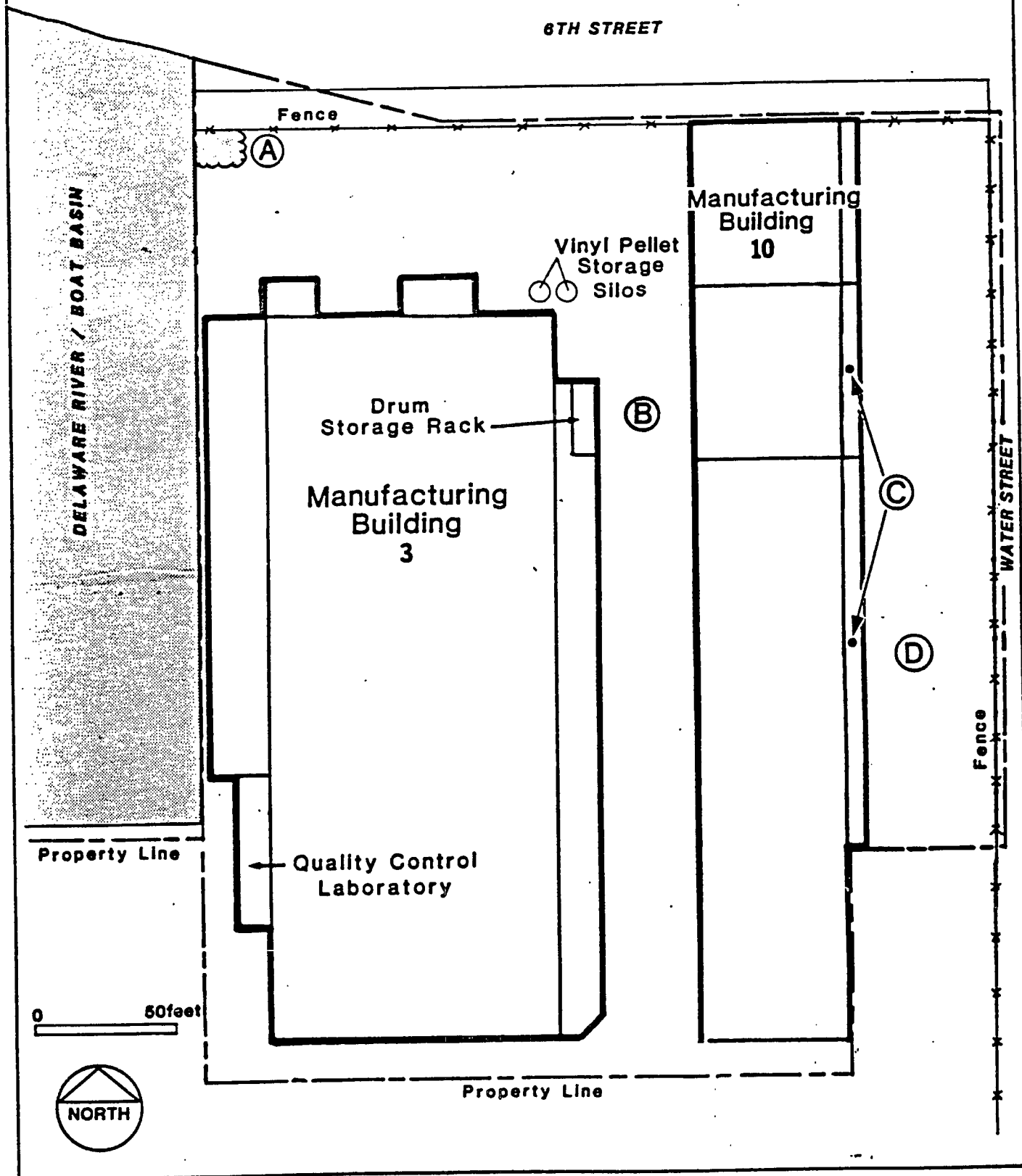
ITT wishes to emphasize that by filing this submission it is not assuming any responsibility for complying with ECRA in connection with this industrial facility and accordingly should not be construed as an owner or operator for purposes of ECRA.

BCM

APPENDIX 2  
SCALED SITE MAP

**SAMPLING PLAN-KEY**

- |   |   |
|---|---|
| A. Truck loading/unloading area<br>misc. drum storage | C. Exposed subsurface in building floor |
| B. Drum storage rack spill area                       | D. Background                           |



**Scaled Site Map**

DESCRIPTION OF OPERATIONS

We have been advised that Vanguard Vinyl Siding, Inc. produced plastic siding for homes and other buildings. Since the site has been abandoned and Vanguard's operations discontinued, there is limited available documentation concerning the specifics of the manufacturing operations at this facility. However, based on evaluation of limited documentation, our knowledge of this type of operation and site visual observations, it is apparent that raw materials, including polyvinyl chloride resin, stabilizers and pigments, were delivered by truck or rail car. The resin was stored in silos and mixed with the stabilizers and pigments at the Blend Area. After blending, the mixture would be extruded in one of a total of six extrusion lines.

Various operations were present at the Vanguard plant in support of process operations. For example, a machine shop, die shop, electrical shop, millwright shop, and welding shop were maintained on the premises. A product quality control laboratory was also maintained.

Due to the lack of documentation traditionally available from a site with ongoing operations, the Sampling Plan, contained in Appendix 5, stresses a comprehensive approach to site sampling and selection of analytical parameters.



INVENTORY AND STORAGE OF MATERIALS

Documentation concerning the hazardous materials and wastes present at the Vanguard plant was limited. Table 4-1 presents an inventory of all materials, as determined during site inspection. The storage location of materials is also noted in Table 4-1. All materials are now stored in a random manner in Building 10 or on the drum storage rack as illustrated on the Scaled Site Map included in this appendix. In general, Vanguard used the following chemicals to produce plastic siding:

1. Polyvinyl chloride resin
2. Stabilizers
3. Plasticizers
4. Pigments
5. Various lubricating oils
6. Coolant oils

TABLE 4-1

VANGUARD VINYL SIDING INC.  
GLOUCESTER CITY, NEW JERSEY

Material	Quantity/ Container	Location	To Remain Onsite
<u>Stabilizers</u>			
IRGASTAB T-633 CIBA-GEIGY	2 gallons	Building 10	No
Stanclore T-233-P Interstab Chemical	8 30-gallon drums	Building 10	No
Tin containing stabilizers M&T Chemical	80 gallons	Building 10	No
Sicostab R335 BASF	60 gallons	Building 10 & Laboratory	No
Weston XP1673 Borg/Warner Chemicals	15 gallons	Laboratory	No
<u>Oils</u>			
Heat Transfer Fluid 500 Union Carbide	2 55-gallon drums	Building 10	No
Thermolite 137	10 gallons	Building 10	No
Gear oil Mobil	3 55-gallon drums	Drum storage rack - Bldg. 10	No
Automatic Transmission Fluid Mobil	1 55-gallon drum	Drum storage rack - Bldg. 10	No
DTE Light oil Mobil	1 55-gallon drum	Drum storage rack	No
<u>Polyvinyl Chloride</u>			
Powder	50 900 lb boxes	Building 10	No
Chips	2 900 lb boxes	Building 10	No
<u>Phthalates (Plasticizers)</u>			
Di(ethyl-hexyl) phthalate	2 55-gallon drums	Building 10	No
<u>Pigments</u>			
Yellow titanium powder	10 25-gallon drums	Building 10	No
Various pigments containing iron and titanium	16 10-gallon	Laboratory	No
<u>Unknown</u>	3 55-gallon drums	Building 10 and drum storage rack	No

## SAMPLING PLAN

### 5.1 INTRODUCTION

The following sampling plan is designed to evaluate the potential for environmental concern at selected locations within the Vanguard Vinyl Siding Inc.'s (Vanguard) facility at Gloucester City, New Jersey. Soil sampling locations were chosen to provide information necessary for characterizing soil conditions resulting from operations at the site. The facility's history, initial sampling data, local geology and hydrogeology were considered in the design of the sampling plan. Upon completion of this soil sampling program, an evaluation of the potential for environmental concerns at sampled locations will be made. If locations of environmental concern are found, steps will be proposed to further define conditions at these locations or, if conditions are clearly defined, a cleanup plan will be developed.

### 5.2 SITE DESCRIPTION

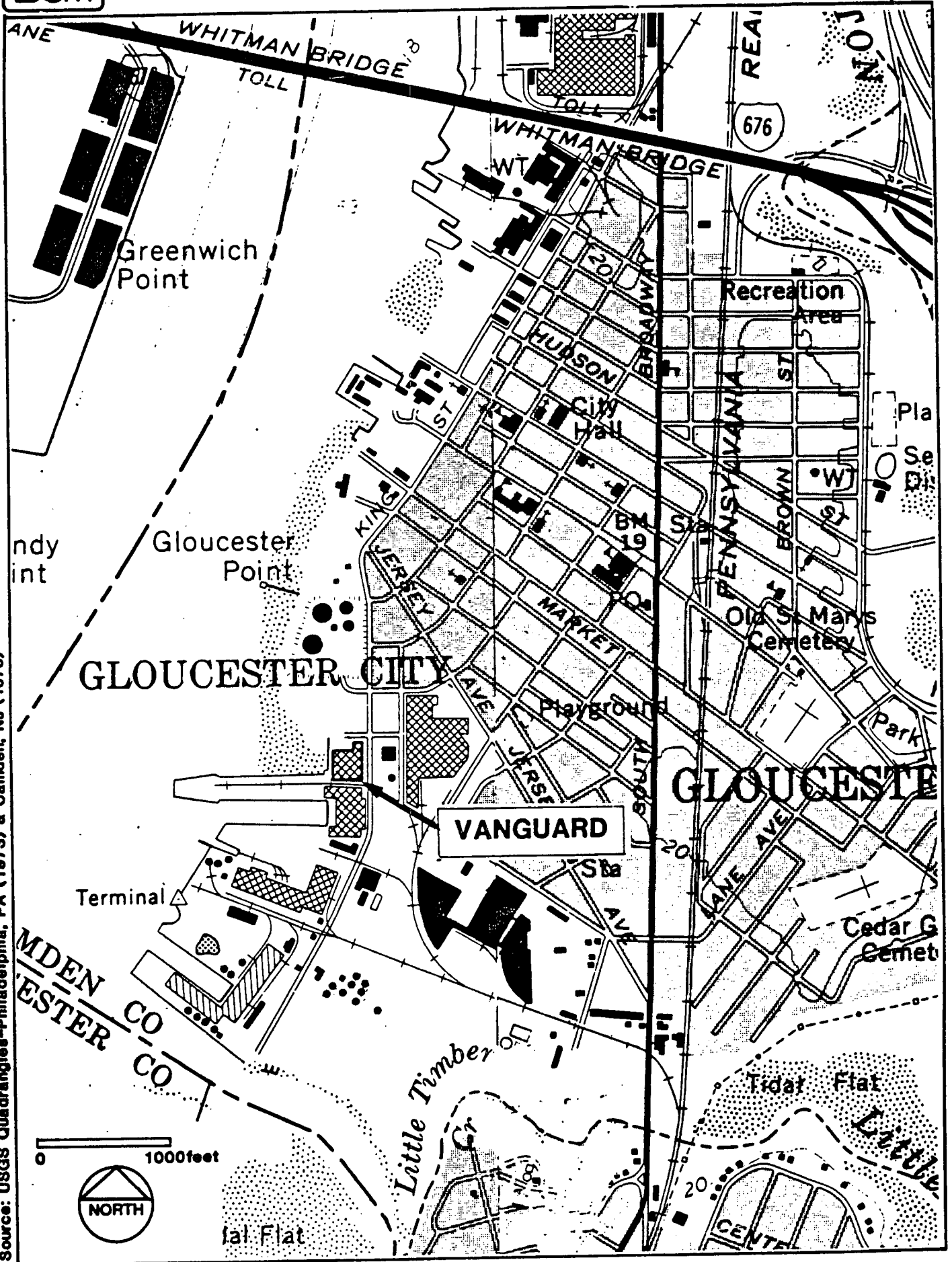
The Vanguard site is located on the Delaware River in Gloucester City, New Jersey as illustrated on the following USGS Location map. Several nearby industrial operations including a chemical manufacturer and oil storage facility are adjacent to the facility. The area is flat-lying, with several streams and marshes located in the vicinity. These streams and marshes are influenced by the tidal fluctuations of the Delaware River.

#### 5.2.1 Geology

Physiographically the Vanguard site is near the western boundary of the Atlantic Coastal Plain province. The province is composed of a thick wedge of unconsolidated sediment overlying older consolidated bedrock.

The unconsolidated sediment formations range in age from Holocene to Cretaceous and consist of clay, silt, sand, and gravel of both marine and non-marine origins. These sediments are approximately 250 feet thick at the Vanguard plant site and thicken eastward towards the Atlantic Ocean. The underlying bedrock material is Cambrian to pre-Cambrian in age, outcrops in the Philadelphia area, and is called the Wissahickon Schist. Immediately below the plant and outcropping in the area are the Magothy and Raritan formations. These formations are predominantly continental in origin and were deposited largely by the actions of streams. The Raritan formation is composed of light-colored quartzose sand, clay, and some gravel. The Magothy formation consists of dark grey or black clay,

Source: USGS Quadrangles-Philadelphia, PA (1973) & Camden, NJ (1973)



commonly lignitic, alternating with white micaceous fine sand. In the Gloucester City vicinity, it is difficult to distinguish between these two formations. Both formations dip at a relatively steep angle to the southeast.

### 5.2.2 Hydrogeology

The Raritan and Magothy formations contain aquifers which in the past supplied large quantities of water to the Gloucester County area. Most of the industries along the Delaware River and public water companies in the county at one time obtained water from these aquifers. However, saltwater intrusion has significantly reduced the use of these aquifers as a potable water source.

In the area of the Vanguard facility, two water-bearing zones (aquifers) have been identified in the Magothy and Raritan formations. The upper zone includes the upper 120 feet and the lower zone includes approximately the lower 200 feet of the formations. These two zones are separated hydraulically by clay beds. Coefficients of transmissivity for the lower zone have been reported to be 42,000 gpd/feet and for the upper zone 52,000 gpd/feet. Both zones have contained wells which can yield over 1,000 gpd.

The movement of water in these aquifers is influenced by industrial pumping on both sides of the Delaware River. The recharge for the aquifers prior to development was mainly from precipitation on outcrop areas. Currently a majority of the recharge appears to be coming from the Delaware River.

### 5.2.3 Hydrogeologic Assessment

The hydrogeologic setting for the area is such that Delaware River water has the potential to impact the groundwater beneath the Vanguard facility. Therefore, poor groundwater quality found in the area of the Vanguard facility may be unrelated to activities at this facility. The soil sampling program proposed for the Vanguard facility is designed to assess soil conditions in the upper soil zone (0 to 4 feet) at all areas considered to be of potential environmental concern. If conditions are detected in the upper soil zone which have the potential to impact groundwater, a groundwater sampling program will be proposed.

## 5.3 SITE MAP

The Scaled Site Map identifies all areas of potential environmental concern and some of the different storage areas at the Vanguard facility. The figure also identifies locations sampled during the initial characterization sampling and the proposed background sample location. A discussion of the initial characterization sampling is contained in Appendix 6 of the Site Evaluation Submission (SES).

#### 5.4 SAMPLING LOCATIONS

Based on results from an initial sampling conducted at the site, three areas of potential environmental concern have been identified. These three areas and the initial sampling results are discussed in Appendix 6. This initial sampling and analytical effort was implemented because of limited available documentation and the desire to determine areas of potential environmental concern. The sampling plan includes extensive sampling at each of these areas to characterize the extent and level of contamination. Following is an area by area description of proposed sampling. Table 5-1 summarizes this material and lists the number of samples and sampling parameters recommended.

Area A is a truck loading and unloading area and the location of miscellaneous drum storage. This area was sampled during the initial round of sampling. The analytical results along with visual observations indicate that there may have been some accidental spills in the area. To adequately characterize this area it will be necessary to conduct six borings. Each of these borings will extend to the water table with samples retrieved continuously from 0.5 feet intervals. The borings will be conducted within the obviously stained area and around the perimeter of this area.

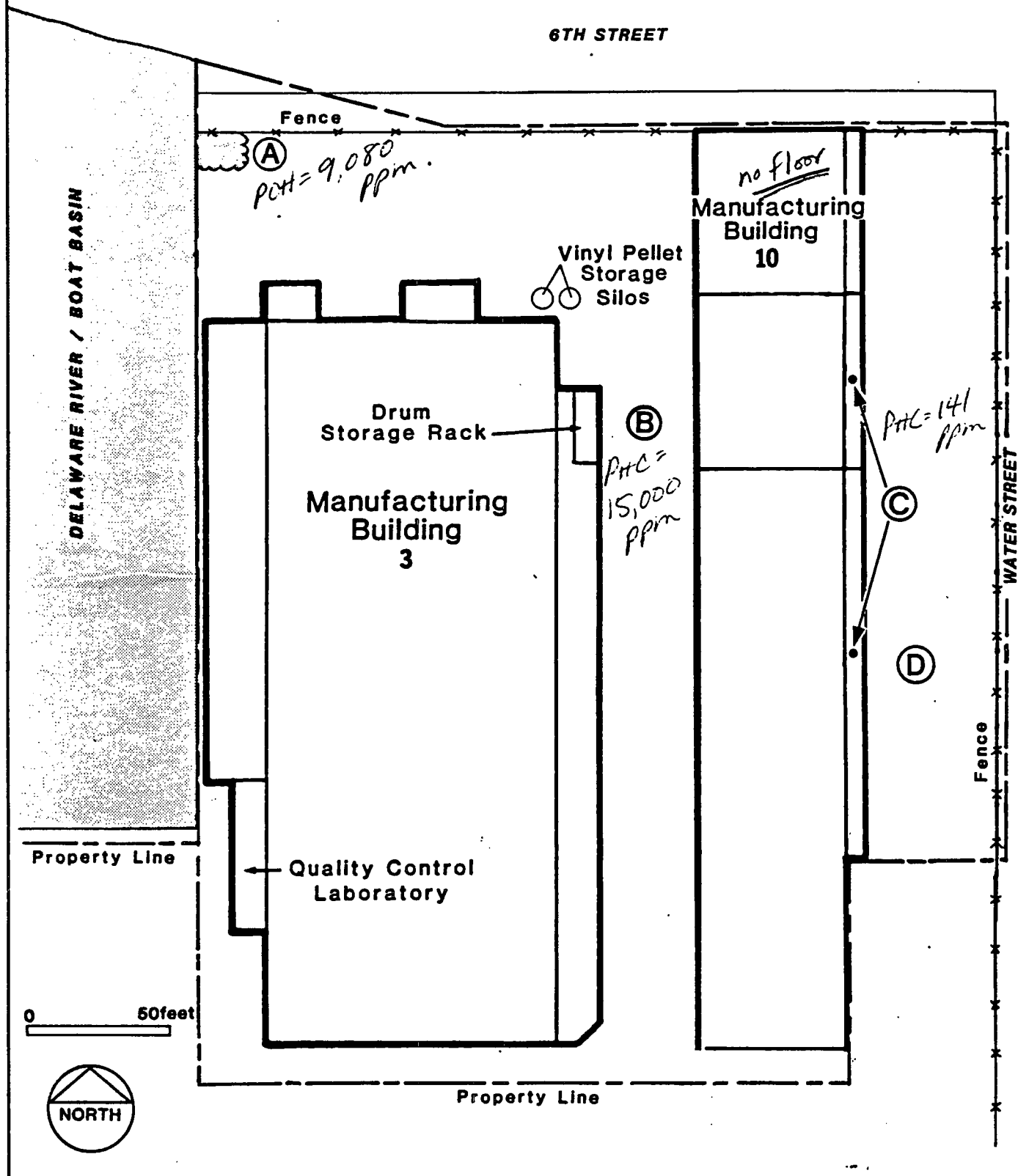
Area B is an area which received run-off from a drum storage rack inside the plant. A sample was collected in this area during the initial round of sampling. The results along with visual observation indicate that drums stored inside the plant have leaked and/or spilled with the run-off from these mishaps creating an area of potential environmental concern. To fully characterize both the extent and level of contamination in this area, four borings will be conducted to the water table. Samples will be retained continuous from each boring at 0.5 feet intervals. Again, the borings will be conducted within the stain area and around its perimeter.

Area C is an area of uncovered ground inside the plant, where PVC resins and pigments have been spilled. Samples were collected at various locations throughout this area during the initial round of sampling. The analytical results indicate that the area is essentially clean except for some elevated lead concentrations. Before this sampling plan is implemented there will be a general clean-up in this area. All spilled resins, pigments, and stabilizers will be removed and appropriately disposed. Following this removal, six borings will be conducted at selected points in the exposed ground area. Each boring will be continued to 3 feet with samples retained from 0.5 feet intervals.

Near the front of the plant there is an area of open land which appears relatively undisturbed. As part of the sampling plan, a 3-foot boring will be conducted in this area; sampled at 1-foot intervals.

SAMPLING PLAN-KEY

- |   |   |
|---|---|
| A. Truck loading/unloading area<br>misc. drum storage | C. Exposed subsurface in building floor |
| B. Drum storage rack spill area                       | D. Background                           |



Scaled Site Map



TABLE 5-1  
SUMMARY OF SAMPLING PLAN LOCATIONS  
VANGUARD

Area	Site Description	Material Managed	Sample Location	Minimum Number of Samples	Parameters	EPA Test Method*
A	Form Truck Loading and miscellaneous drum storage	PVC Resins and drums containing various materials	6 Borings around former unloading and drum storage area	2	Priority Pollutant + 45 Scan and Total Petroleum Hydrocarbons	PP+45**, 418.1***
				6	Total Petroleum Hydrocarbons, Purgeable Aromatics, and Purgeable Halocarbons	418.1, 5030, 8010, 8020
B	Area Receiving Runoff from drum racks inside building	Various oils and solvents	4 Borings in runoff area	1	Priority Pollutant + 45 Scan and Total Petroleum Hydrocarbons	PP+45, 418.1
				4	Total Petroleum Hydrocarbons, Purgeable Aromatics, Purgeable Halocarbons	418.1, 5030, 8010, 8020
C	Exposed ground inside building	PVC Resins and pigments	6 Borings following initial cleanup	6	Barium, Cadmium, Chromium, Lead, Tin, and Titanium	7080, 7090, 7190, 7420
D	Background		1 Boring	1	Priority Pollutant + 45 Scan and Total Petroleum Hydrocarbons	PP+45, 418.1

\* See Test Methods for Evaluating Solids Waste, USEPA, SW-846 (July 1982).

\*\* The USEPA's toxic pollutant list covers 129 parameters. See generally Silva, USEPA, Moving to Control Industrial Toxic Pollutants With New NPDES Permits, Civil Engineering - ASCE, September 1981. The "plus forty-five" requirement refers to tentative identification of organic non-priority pollutant compounds based on a library search of 15 purgeable organics, 15 acid extractables and 15 base neutrals. See NJDEP Hazardous Site Industrial Survey and Feasibility Study Requirements, unpublished.

\*\*\* Method modified to include a soxhlet extraction at 20 cycles/hour for 4 hours, water extraction with MgSO<sub>4</sub>, and sample cleanup with silica gel.

## 5.5 ANALYTICAL PARAMETERS

The analytical parameters (Table 5-1) were chosen to best indicate the potential for environmental concern at each specific area. Site inspection data and initial sampling plan results have provided the basis for choosing particular parameters.

## 5.6 SAMPLING PROTOCOL

Soil samples will be obtained from the soil borings using the following protocol:

1. The hand augering and/or split spoon sampling device will be cleaned of sediment and then pressure cleaned with water and 50/50 methanol and distilled water prior to each use.
2. The sampling device will be used to sample the selected interval and then withdrawn to the surface and opened. The soil sample will be logged by a geologist and placed into a proper laboratory-prepared container.
3. The interval will be continuously sampled at each boring location to prescribed interval.
4. The soil sample will be delivered under chain-of-custody to either BCM's Norristown, Pennsylvania Laboratory or General Testing Corporation in Hackensack, New Jersey for analysis.

At area A, two composites will be prepared from the 0.5 to 1.0 feet interval from all borings taking equal aliquots from three samples to make one composite and equal aliquots of the remaining three to make the other. These composites will be analyzed for the Priority Pollutants plus 45 (PP+45). Three additional composites will also be prepared taking equal aliquots of the 3.0 to 3.5 foot interval sample from two samples per composite. These composites will be analyzed for purgeable aromatics, purgeable halocarbons (PA/PH), and total petroleum hydrocarbons.

Composites will be made by taking equal aliquots of the 0.5 to 1.0 foot interval from the four borings conducted in Area B with two samples per composite. These composites will be analyzed for PP+45. Two additional composites will be made by taking equal aliquots of the 3.0 to 3.5 foot sample again using two samples per composite. These composites will be analyzed for PA/PH and total petroleum hydrocarbons.

For Area C, a total of six composites will be prepared for analysis. Three composites will be composed of equal aliquots taken from the 0 to 0.5 feet sample using two samples per composite. The other three will be composed of equal aliquots taken from the 1.0 to 1.5 feet interval using two samples per composite. Each composite will be analyzed for barium, cadmium, chromium, lead, and tin.

The background sample will be composed of the 0.5 to 1.0 foot interval sample and will be analyzed for PP+45 and total petroleum hydrocarbons.

#### 5.7 ANALYTICAL METHODOLOGY

All samples retained for analysis will be sent to BCM Laboratory Division, 521 West Germantown Pike, Norristown, Pennsylvania 19403 (NJDEP Certification No. 771715). Here all compositing and preparation for analysis will be conducted. Most of the analyses will be performed by BCM's Laboratory, however, gas chromatograph/mass spectrometer work will be subcontracted to a NJDEP certified laboratory and testing for petroleum hydrocarbons will be subcontracted to General Testing Company in Hackensack, New Jersey. For Laboratory Quality Assurance/Quality Control Program (QA/QC), please see Appendix 8.

BCM

APPENDIX 6  
AREAS OF CONCERN AND INITIAL SAMPLING RESULTS

AREAS OF CONCERN AND INITIAL SAMPLING RESULTS

All areas where hazardous substances were handled and that may be of potential environmental concern are shown on the Scaled Site Plan and Table 6-1. The sites were chosen based on site inspection by BCM and a round of characterization sampling conducted by BCM.

Area A is a truck loading area on the north side of Building 3. Raw materials and finished product were received and shipped from this area. Two silos storing vinyl pellets are also located between the loading area and manufacturing building. Visual observations indicated evidence of minor spills. An initial round of sampling indicated the presence of phthalates and petroleum hydrocarbons in elevated concentrations.

Area B is located just outside of a door on the northeast side of the main building. This area would have received spillage from a drum storage rack located just inside the building. Both visual and initial sampling results confirm that spillage did occur in this area as evidenced by elevated petroleum hydrocarbon concentrations. It is therefore likely that drums of lubricating and other types of oils were stored in this vicinity.

Area C is located inside the plant and consists of an area of exposed ground surrounded by concrete flooring. Both visual observation of debris scattered in this area and the initial sampling results indicate spillage of PVC resins and pigments. The analytical results also reveal some elevated lead concentrations.



ITT-VANGUARD. GLOUCESTER CITY, NEW JERSEY  
 UNLOADING AREA  
 AREA A

Parameter (EPA Test Method)	BCM Sample No.:	N504483
	Sample Date:	3/6/85
	Average Depth (ft):	1.0
	Description:	Soil
<u>Phthalate Esters mg/kg (8060)</u>		
DiMethyl Phthalate		<1.54
Diethyl Phthalate		<1.31
Dibutyl Phthalate		<0.91
Butyl Benzl Phthalate		<0.91
Di-(ethyl hexyl) phthalate		7.56
Di-N-Octyl phthalate		11.5
<u>Volatile Organics mg/kg (8010 &amp; 8020)</u>		
Chloromethane		<0.01
Bromomethane		<0.01
Vinyl chloride		<0.01
Chloroethane		<0.01
Methylene chloride		<0.01
Trichlorofluoromethane		<0.01
1,1-Dichloroethylene		<0.01
1,1-Dichloroethane		<0.01
trans-1,2-Dichloroethylene		<0.01
Chloroform		0.02
1,2-Dichloroethane		1.08
1,1,1-Trichloroethane		<0.01
Carbon Tetrachloride		<0.01
Bromodichloromethane		<0.01
1,2-Dichloropropane		<0.01
trans-1,3-Dichloropropylene		<0.01
Trichloroethylene		<0.01
Dibromochloromethane		<0.01
1,1,2-Trichloroethane		<0.01
cis-1,3-Dichloropropylene		<0.01
Bromoform		<0.01
1,1,2,2-Tetrachloroethane		<0.01
Tetrachloroethane		0.70
Chlorobenzene		<0.01
Benzene		<0.01
Toluene		<0.01
Ethylbenzene		<0.01
1,2-Dichlorobenzene		<0.01
1,3-Dichlorobenzene		<0.01
1,4-Dichlorobenzene		<0.01
<u>Metals mg/kg</u>		
Arsenic (7060)		2.72
Barium (7080)		35.1
Cadmium (7090)		0.70
Chromium (7190)		20.1
Mercury (7470)		0.633
Lead (7420)		0.109
Selenium (7740)		<0.009
Silver (7760)		<0.17
Total Petroleum Hydrocarbon mg/kg (418.1*)		9,080

\* Method modified to include soxhlet extraction @ 20 cycles/hr for 4 hrs.,  
 water extracted with MgSO<sub>4</sub>, and sample cleanup with silica gel.

Source: BCM.



TABLE 6-3

ITT-VANGUARD. GLOUCESTER CITY, NEW JERSEY

STAINED AREA NEAR DRUM STORAGE

AREA B

	BCM Sample No.:	N504482
	Sample Date:	3/6/85
Parameter	Average Depth (ft):	1.5
(EPA Test Method)	Description:	Soil

Volatile Organics mg/kg (8010 & 8020)

Chloromethane	<0.01
Bromomethane	<0.01
Vinyl chloride	<0.01
Chloroethane	<0.01
Methylene chloride	0.14
Trichlorofluoromethane	<0.01
1,1-Dichloroethylene	<0.01
1,1-Dichloroethane	<0.01
trans-1,2-Dichloroethylene	2.70
Chloroform	0.31
1,2-Dichloroethane	<0.01
1,1,1-Trichloroethane	<0.01
Carbon Tetrachloride	<0.01
Bromodichloromethane	0.61
1,2-Dichloropropane	<0.01
trans-1,3-Dichloropropylene	2.01
Trichloroethylene	<0.01
Dibromochloromethane	<0.01
1,1,2-Trichloroethane	<0.01
cis-1,3-Dichloropropylene	<0.01
Bromoform	<0.01
1,1,2,2-Tetrachloroethane	<0.01
Tetrachloroethane	<0.01
Chlorobenzene	<0.01
Benzene	<0.01
Toluene	<0.01
Ethylbenzene	<0.01
1,2-Dichlorobenzene	<0.01
1,3-Dichlorobenzene	<0.01
1,4-Dichlorobenzene	<0.01

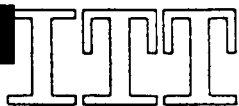
PCB ug/l (8080)	<9.0
-----------------	------

Total Petroleum Hydrocarbon mg/kg (418.1*)	15,800
--	--------

\* Method modified to include soxhlet extraction @ 20 cycles/hr for 4 hrs.,  
water extracted with MgSO<sub>4</sub>, and sample cleanup with silica gel.

Source: BCM.

ATTACHMENT B



*ITT Commercial Finance Corp.*

8251 Maryland Avenue  
Clayton, Missouri 63105  
(314) 725-2525

April 21, 1986

Ms. Chris Hylemon  
New Jersey Department of Environmental Protection  
Division of Waste Management  
Hazardous Site Mitigation Administration  
Bureau of Industrial Site Evaluation CN028  
Trenton, NJ 08625

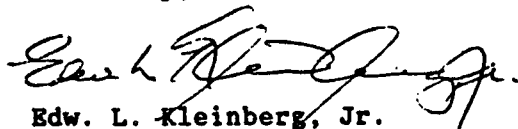
RE: Vanguard Vinyl Siding, Inc.  
Charles & Water Streets; Gloucester City;  
Camden County; ECRA Case No. 85569

Dear Ms. Hylemon:

As neither owner nor operator of the above referenced subject, ITT Commercial Finance came forward to expedite the ECRA process prior to foreclosure. Accordingly, as provided for in Appendix 1 of the General Information Submission, ITT Commercial Finance initiated submission prior to any ECRA triggering event, and without assuming any liability for completing the ECRA process, at this point we have chosen not to complete the ECRA process.

Thank you for your cooperation in closing this matter.

Sincerely,

  
Edw. L. Kleinberg, Jr.  
Account Manager

ELK:11g0400Y

cc: Ed Hogan

ATTACHMENT 12113

ATTACHMENT C

## INCIDENT NOTIFICATION REPORT

☐ TRENTON DISPATCH ☒ DIV. OF WASTE MANAGEMENT ☐ DIV. OF ENVIR. QUALITY ☐ DIV. OF WATER RESOURCES  
☐ HQ FIELD OFFICE: ☐ NORTHERN ☐ METRO ☐ CENTRAL ☒ SOUTHERN TOM + BRUCE

DATE 07-08-86 TIME (Military) 0800 REC'D BY 1461 PHONE NO. 859-2958

INCIDENT REPORTED BY: CASE NO. 86-07-08-02 S

NAME ANTHONY McMAHON thru BRUCE VANNER PHONE 633-7141  
CHIEF

STREET CN 028 (NJDEP/DWM/H3MA)

CITY TRENTON STATE NJ

AFFILIATION BUREAU OF <sup>INDUSTRIAL</sup> SITE EVALUATION. - CONTACT - CHRISTINE HYLEMON

## NATURE OF INCIDENT:

EMERGENCY: ☐ FIRE ☐ EXPLOSION ☐ DRUMS ☒ SPILL ☐ DERAILMENT ☐ MUA  
COMPLAINT: ☐ SMOKE ☐ ODORS ☐ DUST ☐ SEWAGE ☐ NUISANCE ☐ ILLEGAL DUMPING  
OTHER: ☐

## INCIDENT LOCATION:

NAME (Site) VANGUARD VINYL SIDING, INC PHONE (609) 428-4600  
PROP OWNER - SAMMUEL NATAL ES

STREET CHARLES + WATER STS. 807 HADDON AVE  
HADDONFIELD, NJ 08033

CITY GLOUCESTER CITY COUNTY CAMDEN STATE NJ ZIP CODE 08030

STATUS AT SCENE OF INCIDENT: AREAS  
POSSIBLE (DRUM STORAGE) - GROUND IN CERTAIN CONTAMINATED BY SPILLAGE -  
ABANDONED ON SITE

DATE OF INCIDENT: 07-08-86 TIME: 0800  
ONGOING

ANYONE HOSPITALIZED ☐ YES ☒ NO POLICE AT SCENE ☐ YES ☒ NO  
AREA EVACUATED ☐ YES ☒ NO FIREMAN AT SCENE ☐ YES ☒ NO  
CONTAMINATION OF ☐ AIR ☒ LAND ☐ WATER ASSISTANCE REQUIRED ☐ YES ☒ NO  
PUBLIC EXPOSURE ☐ YES ☒ NO  
RECEIVING WATER ☐ YES ☒ NO  
WIND DIRECTION \_\_\_\_\_ POTABLE WATER SOURCE ☐ YES ☒ NO  
LOCATION TYPE ☒ CITY ☐ INDUSTRIAL ☐ RURAL

SOURCE OF INCIDENT/PROBLEM: ☒ KNOWN ☐ UNKNOWN

COMPANY NAME SAME AS INCID. LOC. PHONE \_\_\_\_\_

CONTACT \_\_\_\_\_ TITLE \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

IDENTITY OF SPILLED AND/OR DISCHARGED SUBSTANCE: ☐ KNOWN ☐ UNKNOWN

NAME OF SUBSTANCE PETROLEUM PRODUCTS + POSSIBLE OTHER HAZ. SUBSTANCES,

AMT. UNK A/P/E \_\_\_\_\_ SUBSTANCE CONTAINED ☐ YES ☐ NO ☒ UNKNOWN

## OFFICIALS NOTIFIED. (A-310)

HEALTH DEPT.: PERSON secretary CCHD PHONE 757-8600 DATE 7-8-86

LOCAL MUNIC.: PERSON \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

INCIDENT REFERRED TO: ☐ BFO ☐ BERG ☐ DCJ ☐ DWR ☐ F&G ☐ BAPC ☐ HD

1. PERSON VAN HORN / Routine PHONE 859-2958 DATE 7-8-86  
1005

2. PERSON \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

## COMMENTS:

unknown if CCHD will send someone out.

ATTACHMENT D

# CAMDEN COUNTY DEPARTMENT OF HEALTH

## MEMORANDUM

Date July 15, 1986

Comp. # 0708-L

TO: File

FROM: Robert Lentine, Sr.S.I.

SUBJECT: Vanguard Vinyl Siding Co. Inc. Gloucester City N.J.

An inspection was conducted at the interior and exterior of Vanguard Vinyl Siding Co. at Charles and Water Sts. in Gloucester City. This plant used to manufacture vinyl Siding but is presently bankrupt and the building appears to be abandoned. The following was noted concerning potentially hazardous toxic materials.

Inside)

A considerable volume of apparent plastic resin material which was stored in open boxes labeled (acetaminophen powder), was noted. Several containers and bags of dye products were observed in containers and spilled onto the floor.

Several unlabeled containers or 55 gallon drums were observed (app 20). Several 55 gallon drums of a product called thermolite were observed. Conducted inspection with David Sweeney.

Discussed findings with N.J.D.E.P. Mike Hanson.

10-55 gallon drums of light weight oils, solvents heat transferring fluids and auto transmission fluid were observed. In a small lab area app. (1000 ml.) bottles of trichloroethane, methylene chloride and cyclohexanone were observed. Several containers of material dye or chemicals were observed which lacked identifying labels. Dye materials were spilled onto the floor.

A 55 gallon drum of asbestos insulation was noted. An app. 20 gallon container of material marked corrosive was observed laying on the floor near a floor drain. There was some evidence of leakage.

Outside:

3-55 gallon drums of unlabeled material were observed with some evidence of leakage at the bung holes. 1-55 gallon drum of material, unlabeled, was noted with out a bung cap. Several drums (6to8) were empty or had expanded and ruptured at the seams. see back for a rough map.

RL/ic

(Signature)

cc: Gloucester City BOH-MGB  
N.J.D.E.P.

ATTACHMENT E-1



ATTACHMENT E

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WASTE MANAGEMENT  
120 ROUTE 156, YARDVILLE, N.J. 08620

## NOTICE OF VIOLATION

ID NO. 86-07-08-025DATE 11-5-86NAME OF FACILITY VANGUARD VINYL SIDING, INC.LOCATION OF FACILITY CHARLES + WATER STS., GLOUCESTER CITY, N.J.NAME OF OPERATOR KERM INVESTMENT CO.  
P.O. BOX 506, MANVILLE, N.J. 08835

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 13:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

DESCRIPTION OF VIOLATION (NJSA 58:10-23.11, c + e) discharging of a  
hazardous substance and failure to notify NJDEP

Remedial action to correct these violations must be initiated immediately and be completed by

20 1986. Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

NEW JERSEY DEPT. OF ENVL PROT.  
DIVISION OF HAZ. WASTE MGT.  
SOUTHERN FIELD OFFICE  
RT. 70 + RED LION CIRCLE

Jennies E. Van Horn  
Investigator, Division of Waste Management  
Department of Environmental Protection

ATTACHMENT E-1

INVESTIGATION

CASE #: 86-07-08-025

INITIAL

DWM FILE #: 04-14-<sup>12</sup>~~86~~

TIME ARRIVED: 1120

INVESTIGATOR: DENNIS E. VAN HORN

DATE: 9-4-86

TIME DEPARTED: 1230

LOCATION: VANGUARD VINYL SIDING, INC.

PROPERTY OWNER: VANGUARD VINYL

ADDRESS: CHARLES + WATER STS.

MAILING ADDRESS: C/O KERM INVESTMENT CO.

GLOUCESTER CITY County: CAMDEN

P.O. BOX 506

BLOCK: 110

LOT: 3.B

RESPONSIBLE PARTY

MANVILLE, NJ 08835

LOCATION TELEPHONE #: NONE

ADDRESS:

P.O. BOX 69

EPA ID #:

MANVILLE, NJ 08835

LOCAL HEALTH DEPT. REP. ROBERT LENTINE, CCHD

TELEPHONE #: 757-8600

ORIGIN OF COMPLAINT: ANTHONY McMAHON (ECRA)

TELEPHONE #: 633-7141

NATURE OF COMPLAINT: ABANDONED FACTORY WITH DRUMS AND SPILLAGE ONSITE

PHOTOGRAPHS TAKEN: NO

SAMPLE #: NO

FINDINGS: ON 9-4-86 AT 1120 I ARRIVED ONSITE TO MEET

ROBERT LENTINE OF THE CAMDEN COUNTY HEALTH DEPT.

MR. LENTINE WAS IN THE PROCESS OF OBTAINING ENTRY TO THE FRONT GATE THROUGH AN UNIDENTIFIED EMPLOYEE OF THE G.A.F. CORP DIRECTLY ACROSS THE STREET.

WE ENTERED THE FRONT GATE (MR. LENTINE + MYSELF ONLY) AND PROCEEDED TOWARD ONE OF FRONT DOORS FACING WATER STREET - THIS DOOR LED TO THE FRONT MANUFACTURING BLDG #10 (AS ALL ON SITE MAP INDICATES FOR THIS NARRATIVE). WE WERE THEN POSITIONED IN THE NORTHEASTERN AREA OF BLDG #10 - THIS ROOM CONTAINED (ON THE EAST SIDE OF BLDG #10) LARGE 4'x4'x4' BOXES OF POWDER + CHIPS LABELED ACETAMINOPHEN BUT COULD BE PVC USED IN THEIR PROCESS. OTHER MATERIAL IN THE SOUTH + WEST END OF THIS ROOM INCLUDED BAGS OF UNIDENTIFIED MATERIAL POWDER SEVERAL OF WHICH WERE BROKEN OPEN SPILLED ONTO THE CONCRETE FLOOR - SOME OF THESE COULD BE DYES - ALSO IN THAT AREA WERE DRUMS OF UNIDENTIFIED MATERIAL.

NEAR THE WEST SIDE WAS THE DOORWAY INTO THE "DRUM STORAGE AREA" WHICH WE PROCEEDED INTO NEXT - THIS AREA CONTAINED NUMEROUS 55-GAL. DRUMS OF WHICH SOME WERE UNIDENTIFIED AND OTHERS APPEARED TO BE DIFFERENT GRADES OF OILS - SOME LEAKAGE MAY HAVE OCCURED IN THIS AREA - ALSO IN THIS AREA IS A DOORWAY TO AN OUTSIDE

WMD

Supervisor Signature

Dennis E. Van Horn

Investigator Signature

INVESTIGATION

CASE # 86-07-08-025

DATE: 9-9-86

FINDINGS AND SUMMARY:

COURTYARD - TYPE AREA. WATER IS ALSO LEAKING IN THIS ROOM. ON THE WEST SIDE OF THE DRUM STORAGE ROOM, A DOOR LEADS INTO MANUFACTURING BUILDING #3 - THIS LARGE BLDG, MOSTLY EMPTY, CONTAINS A DOCK LOADING AREA WITH LEAKING DRUMS, SOME OF WHICH ARE MARKED "CORROSIVE." THERE ARE SEVERAL AREAS OF SPILLED MATERIAL WHICH UNIDENTIFIABLE.

THE WEST SIDE OF BLDG #3 HAS A ROOM PREVIOUSLY USED AS A LABORATORY - THERE ARE SEVERAL CONTAINERS OF CHEMICALS AND DYES BOTH CONTAINED AND SPILLED ALL OVER THE ROOM.

THE EAST SIDE OF THE ROOM HAS ENTRANCE TO AN AREA THAT ALSO CONTAINS VARIOUS DRUMS WHICH ARE ALSO UNLABELED

TO THE NORTH SIDE OF BLDG #3 ARE TWO ENTRANCES TO THE OUTSIDE PROPERTY WHICH BORDERS 6th STREET AND THE DELAWARE RIVER - WE EXITED THROUGH THE ELECTRIC POWER ROOM OUT INTO THE NORTH YARD AREA. - THERE ARE THREE SILOS CONTAINING WHAT APPEARS TO BE DIFFERENT COLOR DYE MATERIALS; THERE IS SOME SPILLAGE ON THE ASPHALT AROUND THE EXTERIOR OF THE SILOS - ALL ALONG THE NORTH FENCE THERE NUMEROUS UNLABELED DRUMS; SOME WITH MATERIAL, OTHERS EMPTY, AND SOME EMPTY WITH BULGING TOPS AND BOTTOMS. - OBSERVATIONS OF SOIL SHOWED EVIDENCE OF SPILLAGE.

AT THIS POINT WE REENTERED BLDG #3 RETRACING OUR STEPS + EXITED THE PLANT THE SAME WAY WE ENTERED. AFTER A BRIEF DISCUSSION WITH MR. LENTINE WE LEAVERED THE SITE AND PROCEEDED TO GLOUCESTER CITY HALL TO OBTAIN AS MUCH INFORMATION AS POSSIBLE ON OWNERSHIP FROM THE TAX OFFICE.

THE PROPERTY IS LISTED AS: VANGUARD VINYL, WATER ST. KERM INVESTMENT CO., SALES + ADMINISTRATION BLDG, BOX 69, MANVILLE, N.J. 08835 -

COPIES:

White - DWM File

Yellow - Local Health Dept.

Pink - Investigator

ATTACHMENT E-3

INVESTIGATIONCASE # 86-07-08-025DATE: 9-9-86Findings and Summary:

AT THIS POINT WE WERE ASKED TO <sup>SPEAK</sup> MR JAMES DEVEREAUX, GLOUCESTER CITY TREASURER - WE EXPLAINED WHY WE WERE THERE AT THE FACTORY AND WHAT WE FOUND IN OUR INVESTIGATION - WE WERE INFORMED THAT VANGUARD VINYL, INC. HAD ALREADY FILED FOR BANKRUPTCY, BUT THAT BY LAW THEY WERE STILL RESPONSIBLE FOR THE PROPERTY - GLOUCESTER CITY HAS/HAD INTENTIONS OF FORECLOSING ON THE PROPERTY DUE TO OWED BACK TAXES - THIS MAY CHANGE IN LIGHT OF ENVIRONMENTAL CLEAN-UP RESPONSIBILITIES - MR. DEVEREAUX DID NOT KNOW OF A PERSON TO CONTACT AT VANGUARD OR THE KERM INVESTMENT CO. - I INFORMED HIM THAT THE RESPONSIBLE PARTY/WE WILL HAVE ACTION TAKEN AGAINST THEM BY D.E.P./DHWM/SFO AND THAT I WOULD CONTACT HIM CONCERNING SFO FUTURE ACTIONS AND/OR PLANS.

WE SECURED THE OFFICE (TAX) AT APPROXIMATELY 1230.

DEVID

WMD

E-4

INVESTIGATION

CASE # 86-07-08-025

DATE 9-9-86

RECOMMENDATIONS AND CONCLUSIONS:

THE SITE OF THIS INCIDENT IS IN IMMEDIATE NEED OF CLEAN-UP — I HAVE ISSUED A N.O.V. WITH A TIME LIMIT. FUTURE PENALTIES WILL DEPEND ON SPEED OF CLEAN-UP AND COOPERATION WHICH CANNOT BE ESTABLISHED NOW.

I RECOMMEND FURTHER ACTION WHEN FUTURE NEED ARISES

RESULT

WLD  
Supervisor Signature

Dennis E. Van Horn  
Investigator Signature

COPIES:

White - DWM File

Yellow - Local Health Dept.

Pink - Investigator

ATTACHMENT E5



4-14-12

Let's protect our earth



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director  
RD 1, Route 70  
Vincentown, N.J. 08088  
609 - 859 - 2958

December 16, 1986

Kerm Investment Company  
P.O. Box 506  
Manville, NJ 08835

Re: Vanguard Vinyl Siding, Inc., Charles & Water Streets, Gloucester City, NJ  
B-110 L-3B

Dear Sirs:

On September 4, 1986 a site investigation was performed jointly by this department and the Camden County Health Department. This investigation has revealed hazardous substances improperly stored onsite in such a manner as to be a potential threat to the environment and the health and safety of the citizens of Gloucester City.

On November 11, 1986 a Notice of Violation was sent. As of this date there has been no response. You are hereby directed to contact this department concerning a remedial clean-up within ten (10) days of the receipt of this notice. Failure to comply will result in the proper legal action and proceedings by this department.

Sincerely,

*Dennis E. Van Horn*

Dennis E. Van Horn  
Environmental Technician

DEVH:slv

cc: William Dunfee

Robert Lentine, Camden County H.D.

James Devereaux, Treasurer, Gloucester City  
case file

ATTACHED E-1

ATTACHMENT F

4-14-12

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT

INVESTIGATION  
(follow-up)

Page 1 of 3

CASE #: 86-07-08-025

FILE #: 04-14-12    PAC #: M-95

INVESTIGATOR: Armand J. Minardi  
LOCATION: Vanguard Vinyl Siding  
ADDRESS: Charles and Water Streets  
          Gloucester City

DATE: 11-03-88  
TIME: in- 0950 out- 1035  
OWNER: Vanguard Vinyl Siding  
ADDRESS: c/o Kerm Investment Co.  
          P.O. Box 506  
          Manville, NJ 08835

COUNTY: Camden

BLOCK: 110                      LOT: 3.b

RP: same

LOCATION TELEPHONE: none

ADDRESS: P.O. Box 69 (alternate)

EPA ID #: none

Manville, NJ 08835

LOCAL HEALTH REP: Robert Lentine

TELEPHONE: 757-8600

COMPLAINANT: Anthony McMahon (ECRA)

TELEPHONE: 633-7141

NATURE OF COMPLAINT: Abandoned factory with drums and spillage on site

PHOTOGRAPHS: none

SAMPLE #: none

FINDINGS:

0950: I arrived at the Vanguard Vinyl Siding site and met with Robert Lentine of the Camden County Department of Health. A security attendant from the adjoining GAF facility assisted us with gaining access to the Vanguard site. Lentine and I inspected the interior and exterior of the abandoned vinyl siding factory and observed the following:

- containers of methylene chloride and TCE stored in the lab area
- 10 drums of various types of petroleum products, such as gear and light oil, automatic transmission fluid, "safety solvent", stored in building #10 drum storage rack
- numerous boxes containing titanium pigments, phthalates (Tenneco mfg.), polyvinyl chloride resins in building #10
- other substances, such as Thermolite 137, were evident in building #10
- various types of solid wastes were present in all buildings and outside areas
- 15 drums stored outside and north of building #3; one drum half filled with a light oil, two drums filled with an unknown substance, and the remaining drums appeared to be empty

-----  
SUPERVISOR SIGNATURE

-----  
INVESTIGATOR SIGNATURE

ATTACHMENT 4-1

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT

INVESTIGATION

Page 2 of 3

CASE #: 86-07-08-02s

DATE: 11-03-88

SUMMARY:

- the contents of the storage silos north of building #3 was unknown
- it was difficult to determine if the soils were contaminated with hazardous substance during this inspection

Lentine stated that with the exception of the removal of one drum of corrosive material (at the loading dock, building #3), this site has not changed since his last inspection in 1986. Lentine also stated that the site operators could be engaged in bankruptcy proceedings.

1035: Lentine and I departed the Vanguard site.

1055: I arrived at the Gloucester City Municipal Building at 512 Monmouth Street and met with Mrs. Harker, city clerk. I obtained block and lot information as well as addresses for the responsible party section listed above. Also, the bankruptcy proceedings for Vanguard Vinyl Siding were filed on 11-04-83, case #83-00285. An interested party in this case is Mr. Kleinberg, ITT Commercial Financial Corp., 8251 Maryland Ave., Clayton, Mo. 63105.

I met with Mr. Halbert, Gloucester City Administrator, to further discuss the Vanguard Case. Mr. Halbert had no additional information, however he will advise the DHWM if new information becomes available.

1116: I departed the Gloucester City municipal site.

  
\_\_\_\_\_  
SUPERVISOR SIGNATURE

  
\_\_\_\_\_  
INVESTIGATOR SIGNATURE

ATTACHMENT <sup>F</sup> 4-2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT

INVESTIGATION

Page 3 of 3

CASE #: 86-07-08-025  
DATE: 11-03-88

**RECOMMENDATIONS AND CONCLUSIONS:**

The Vanguard Vinyl Siding site has remained essentially unchanged since 1985. According to existing documentation, the owner of record of this facility is Vanguard Vinyl Siding, Inc., a New Jersey corporation that is being liquidated in the United States Bankruptcy Court. ITT Diversified Credit Corporation (ITT) is the holder of a mortgage encumbering the Vanguard site. Initially ITT wanted to foreclose on the site, however to do so would trigger ECRA. ITT had no responsible party which could comply with ECRA. ITT withdrew its foreclosure thereby making ECRA no longer applicable.

An ECRA General Information and Site Evaluation Submission prepared by BCM (September, 1985, project no. 00-4357-01) was submitted by ITT (see case file).

Attached to this investigation is table 4-1 (list of substances) and a site map from the BCM report.

**Recommendations:** an additional investigation is needed to determine the status of the bankruptcy proceedings and potential responsible parties.

  
\_\_\_\_\_  
SUPERVISOR SIGNATURE

  
\_\_\_\_\_  
INVESTIGATOR SIGNATURE

F  
4-3

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT

INVESTIGATION  
(follow-up)

Page 1 of 1

CASE #: 86-07-08-02s

FILE #: 04-14-12 PAC #: DQA

INVESTIGATOR: Armand J. Minardi  
LOCATION: Vanguard Vinyl Siding  
ADDRESS: Charles and Water Streets  
Gloucester City  
COUNTY: Camden  
BLOCK: 110 LOT: 3.6

DATE: 5-23-91  
TIME: in-1255 out-1355  
OWNER: ITT Commercial Financial Corp  
ADDRESS: 8251 Maryland Ave.  
Clayton, Missouri 63105  
(314-725-2525)

LOCATION TELEPHONE: none

RP: Vanguard Vinyl Siding  
ADDRESS: c/o Kern Investment Co.  
Manville, NJ 08835

EPA ID #: none

LOCAL HEALTH REP: Robert Lentine

TELEPHONE: 757-8600

COMPLAINANT: Anthony McMahon (ECRA)

TELEPHONE: 633-7141

NATURE OF COMPLAINT: Abandoned factory with drums and spillage on site

PHOTOGRAPHS: none

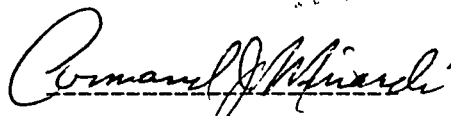
SAMPLE #: none

FINDINGS: 1255: I arrived at the Vanguard Vinyl Siding site and met with John Wright, site custodian and part-time employee of GAF corporation whose abandoned facility adjoins the Vanguard site. Mr. Wright and I gained access to the Vanguard site to conduct a general inspection. A tour of the main production areas, lab and offices revealed that essentially no change had taken place since the inspection of 11-03-88 (see report of that date). An inspection of the outside grounds revealed no noticeable change. Approximately 15 drums were observed north of the storage silos, however these drums were noted in the previous inspection. According to Mr. Wright, vandals have caused much damage as evidenced by numerous broken windows and disruption of the materials (paper, vinyl siding, boxes, etc.) which were stored inside the building. With the exception of the Mayor of Gloucester City, no other party has shown interest in the Vanguard site.  
1355: I departed the site.

CONCLUSIONS AND RECOMMENDATIONS: The Vanguard Vinyl Siding site has remained essentially unchanged since 1985. The ECRA report of 1985 details the site with respect to the substance stored therein.

It is recommended that an AO be issued to the RP/property owner.

  
-----  
SUPERVISOR SIGNATURE

  
-----  
INVESTIGATOR SIGNATURE

ATTACHMENT <sup>F</sup> 9-4



ATTACHMENT G

RAVIN, SARASOHN, COOK, BAUMGARTEN, FISCH & BAIME

COUNSELLORS AT LAW

DAVID N. RAVIN\*  
JEFFREY H. FISCH\*\*  
MARK BAUMGARTEN  
JOSEPH L. COOK  
PETER R. SARASOHN\*  
ROBERT A. BAIME\*  
BERNARD SCHENKLER\*  
KENNETH A. ROSEN\*  
JONATHAN I. RABINOWITZ\*

103 EISENHOWER PARKWAY  
ROSELAND, NEW JERSEY 07068-1072  
(201) 228-9600  
CABLE ADDRESS "DARIM"  
TELECOPIER: (201) 228-9250

PAUL KIZEL\*  
RICHARD D. TRENN  
SHARON L. LEVINE  
MITCHELL B. SEIDMAN\*  
IRA M. LEVEE\*  
BRUCE BUECHLER\*  
MICHAEL L. KONIG\*  
JOHN K. SHERWOOD  
IRENA M. GOLDSTEIN  
ROBIN J. KANTOR\*

August 11, 1989

\*N.J. AND NEW YORK BARS  
\*\*N.J. AND FLORIDA BARS  
\*N.J., N.Y., MA. & ME BARS  
\*N.J., N.Y. & FL. BARS

OF COUNSEL  
GEORGE R. HIRSCH\*

Neil A. Kleinberg, Esq.  
Kleinberg, Moroney & Masterson, Esqs.  
225 Millburn Avenue  
Millburn, NJ 07041

Re: Vanguard Vinyl Siding  
Bankruptcy Case No. 83-00285 (Camden)

Dear Neil:

Enclosed is letter dated August 2, 1989, I received from the Department of Environmental Protection without enclosures.

By way of background, our firm represented Vanguard in connection with a Chapter 11 case filed on January 19, 1983. Your firm represented the Creditors Committee. Thereafter in October, 1983, the Bankruptcy Court converted the case and Mr. Samuel D. Natal (now Judge Natal) was appointed the Chapter 7 trustee. After conversion, I believe your firm was selected as counsel to the trustee.

During the Chapter 7 proceeding and after the business operation ceased, the ECRA statute became effective. My records indicate that the trustee's final report was approved in October, 1984. My file does not indicate how the trustee disposed of the real property owned by the bankrupt which is the subject of the DEP's letter.

I would appreciate your contacting me, since I am not in a position to respond to the DEP's inquiries which may have to be dealt with by the trustee.


RECEIVED  
Aug 16 3 30 PM '89  
INDUSTRIAL  
SITE EVALUATION  
ELEMENT

ATTACHMENT K-1

Page 2  
August 11, 1989

Please contact me to further discuss this matter.

Very truly yours,



Mark Baumgarten

MB:AO  
Enclosure

cc: Honorable Samuel D. Natal  
Ms. Barbara J. Strello  
Mr. Anthony Cinque  
Mr. Robert Walther  
Paul M. Petigrow, Esq.

ATTACHMENT

K-2



State of New Jersey  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam  
Deputy Director  
Hazardous Waste Operations

John J. Trela, Ph.D., Director

Lance R. Miller  
Deputy Director  
Responsible Party Remedial Action

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

403 2 1989

Mark Baumgarten, Esq.  
Ravin, Sarasohn, Cook, Baumgarten, Fisch & Baime  
103 Eisenhower Parkway  
Roseland, N.J. 07068

Dear Mr. Baumgarten:

RE: Environmental Cleanup Responsibility Act (ECRA)  
as it pertains to Vanguard Vinyl Siding.

On September 2, 1983, Governor Thomas Kean signed into law the Environmental Cleanup Responsibility Act (ECRA), N.J.S.A. 13:1K-6 et seq., which became effective December 31, 1983. ECRA applies to Industrial Establishments with operations that fall within the Standard Industrial Classification major group numbers 22-39, 46-49, 51 or 76 and are involved in the generation, manufacture, refining, transportation, treatment, storage, handling or disposal of hazardous substances or wastes. These establishments must notify this Department to provide assurance that the Industrial Establishment is environmentally acceptable upon sale, transfer or closing of operations. Failure to comply with ECRA can result in penalties of up to \$25,000 per day and in extreme cases in voiding of the transaction by the Department.

This office, established by the Department to implement the Act, has been advised that Vanguard Vinyl Siding has ceased operations at Charles and Water Streets, Gloucester City, Camden County ("Gloucester facility").

Accordingly, please submit to this office the General Information Submission ("GIS") portion of the ECRA Initial Notice within fifteen (15) upon receipt of this letters, and the Site Evaluation Submission ("SES") portion of the ECRA Initial Notice within thirty (30) days upon receipt of this letter.

For your convenience, I have enclosed a copy of a regulations and the ECRA Initial Notice forms.

G-  
K-3

If you have any questions, please contact Anthony Cinque of my staff at (609) 633-7141.

Very truly yours,

  
Barbara J. Strollo, Chief  
Bureau of ECRA Applicability  
and Compliance

ATTACHMENT H

**NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT  
ENFORCEMENT ELEMENT**

**SPILL/WATER  
ENFORCEMENT REFERRAL**

TO: DOUG STUART DATE: 5-24-91  
 FROM: THOMAS DOWNEY BUREAU: SOUTHERN  
 RE: VANGUARD VINYL SIDING 86-07-08-025 DQA  
 Violator Name Incident Number PAL #  
GLOUCESTER CITY, GLOUCESTER Co. 110 3.B 0414  
 Location of Violation Block and Lot City/Mun Code  
8251 MARYLAND AVE., CLAYTON, MISSOURI 63105  
 Mailing Address (Street, City, State, Zip) Insurer and Policy #  
ITT COMMERCIAL FINANCE CORP. NOT AVAILABLE  
 Responsible Party/Registered Agent

The attached inspection/investigation which was conducted on 9-4-86  
 with a follow-up inspection conducted on 11-3-88 is being referred  
 and it is recommended a DIRECTIVE/ORDER/PENALTY be issued for violations of:

NJSA 58:10	DESCRIPTION OF VIOLATION	COMPLIANCE (YES/NO)
23.11C	<u>DISCHARGE OF A HAZARDOUS SUBSTANCE</u>	<u>NO</u>
23.11E	<u>FAILURE TO IMMEDIATELY NOTIFY THE NJDEP</u>	<u>NO</u>

**ADDITIONAL COMMENTS/PAST ENFORCEMENT HISTORY (2 YEARS)**

No Past History of Violations.  
ABOVE RP IS MORTGAGE HOLDER. THE SITE  
WAS A FORMER ECRA CASE #85569 - NO LONGER  
ACTIVE DUE TO WITHDRAWAL OF SALE.  
This OTHER should address disposal of (waste)  
unused product remaining in warehouse

REVIEWED AND APPROVED BY:

William M. Dunkel 5-14-91  
Thomas W. Downey 5/28/91

White - Compliance & Technical Services Copy  
 Yellow - File Copy  
 Pink - Inspector Copy

m-1



ATTACHMENT I

0414-05

New Jersey Department of Environmental Protection  
COMMUNICATIONS CENTER NOTIFICATION REPORT

AUG 05 1991

Received: 8/01/91  
Operator: PAT

TD Log # 11522  
Case # 91-8-1-1309-13

Notification Type: Municipal

Reported By  
DISP 12  
Street Address

Affiliation  
GLOUCESTER CITY FD  
Municipality

Phone  
609-784-6667  
State  
NJ

Incident Location: Facility  
Site GAF FACILITY

Phone

Street Address

Municipality

County

State

WATER ST

GLOUCESTER CITY

CAMDEN

NJ

Location Type Industrial

Incident Date 8/01/91

Time 1242

Substance Released POLYVINYL CHLORIDE

Amount Released ( ) UNKNOWN

ID: Known State Solid CAS# 9002-86-2

Release Is Continuous

Additional Substances

Substance Contained? U

Hazardous Material? N

TCPA? N

A310 Letter? N

COMU CODE: 0414

REF CODE: 002

Incident Description Abandoned Containers

Injuries? N Public Evac? N Facility Evac? N Public Exposure? N  
Police On Scene? N Firemen On Scene? Y DEP Requested? Y Wind Sp/Dir

Contamination Of Land

Receiving Water NONE

Status At Scene 12-15 40 GAL DRUMS ABANDONED AND SPILLING POWDER CHEMICAL. NO  
CLEANUP IN PROGRESS.

Responsible Party Known

Party GAF FACILITY

Phone

Contact

Title OWNER

Street Address

Municipality

County

State

WATER ST

GLOUCESTER CITY

CAMDEN

NJ

OFFICIALS NOTIFIED

NAME	TITLE	PHONE	DATE	TIME
NJSP :				
MUNIC:				
OTHER:				

Name	Affiliation	Method	Date	Time	T/M
1. BOB WINTERBURN	DEQ ER2	Office, Faxed	8/01	1327	B
2.					
3.					

COMMENTS

400 lbs - Vince Barber on scene. Pellet form PVC, styrofoam etc  
vandalized by locals. all solids. ECPA site. Bill Dwyer  
is familiar with case. Barber states no Emerg. Response necessary.

Referred to Spills - SFO  
ECPA

8-2-91

um

cc Camden & HD  
ATTACHMENT 0-1

ATTACHMENT J

## HAZARDOUS MATERIALS INCIDENT REPORT

FDID	Incident No. <u>59953</u>	Exposure No. <u>00</u>	Date <u>08.01.91</u>
------	---------------------------	------------------------	----------------------

General Property Use <u>917</u>	Area of Release	Level of Release	Release Primary Secondary Tertiary Factors <u>1</u> <u>1</u>	Equip. Involved in Release
---------------------------------	-----------------	------------------	--	----------------------------

Type Weather	Air Temperature <u>84</u> Deg. F.	Special Haz Mat Response Action Taken <u>1</u> <u>1</u> <u>1</u>	Estimated No. Chemicals Released	Disposition of Incident
--------------	-----------------------------------	--	----------------------------------	-------------------------

Haz Mat Identification Sources Used <u>1</u> <u>1</u> <u>1</u>	Number of Injuries Fire Service Other	Number of Fatalities Fire Service Other
--	---------------------------------------	---

Chemical or Trade Name <u>POLY VINYL CHLORIDE</u>	DOT LD. No.	DOT Hazard Class	CAS. No.
---	-------------	------------------	----------

Physical State Stored <u>1</u> Solid <u>2</u> Lq. <u>3</u> Gas	Physical State Released <u>1</u> Solid <u>2</u> Lq. <u>3</u> Gas	Quantity Released <u>1</u> Lbs <u>2</u> Gal <u>3</u> Cu Ft <u>1400</u>	Extent of Release	Suspt. Environmental Contam. <u>1</u> <u>1</u>
--	--	--	-------------------	--

Container Description <u>1</u> Fixed <u>3</u> Mobile <u>2</u> Portable	Insulated Pressurized Armored <u>1</u> <u>2</u> <u>3</u>	Container Type	Container Material	Container Capacity <u>1</u> Lbs <u>2</u> Gal <u>3</u> Cu Ft <u>32</u>
--	--	----------------	--------------------	---

Chemical or Trade Name	DOT LD. No.	DOT Hazard Class	CAS. No.
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Physical State Stored <u>1</u> Solid <u>2</u> Lq. <u>3</u> Gas	Physical State Released <u>1</u> Solid <u>2</u> Lq. <u>3</u> Gas	Quantity Released <u>1</u> Lbs <u>2</u> Gal <u>3</u> Cu Ft	Extent of Release	Suspt. Environmental Contam. <u>1</u> <u>1</u>
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Container Description <u>1</u> Fixed <u>3</u> Mobile <u>2</u> Portable	Insulated Pressurized Armored <u>1</u> <u>2</u> <u>3</u>	Container Type	Container Material	Container Capacity <u>1</u> Lbs <u>2</u> Gal <u>3</u> Cu Ft
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Chemical or Trade Name	DOT LD. No.	DOT Hazard Class	CAS. No.
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Physical State Stored <u>1</u> Solid <u>2</u> Lq. <u>3</u> Gas	Physical State Released <u>1</u> Solid <u>2</u> Lq. <u>3</u> Gas	Quantity Released <u>1</u> Lbs <u>2</u> Gal <u>3</u> Cu Ft	Extent of Release	Suspt. Environmental Contam. <u>1</u> <u>1</u>
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Container Description <u>1</u> Fixed <u>3</u> Mobile <u>2</u> Portable	Insulated Pressurized Armored <u>1</u> <u>2</u> <u>3</u>	Container Type	Container Material	Container Capacity <u>1</u> Lbs <u>2</u> Gal <u>3</u> Cu Ft
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Transport Type	Year	Make	Model	Vehicle License No.	State
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Vehicle LD. No.	ICC / DOT No.
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Driver's License No.	State
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Comments: <u>Large Amounts of Polyvinyl Chloride Powder found in building, which had been spilled in areas of building and improper storage of large amounts of material throughout building.</u>
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<u>TURNED OVER TO COUNTY HEALTH DEPT.</u>	Continue on reverse side <input type="checkbox"/>
---	---

Special Studies 1. a b c d 2. a b c d 3. a b c d 4. a b c d 5. a b c d 6. a b c d
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Member Making Report <u>H. William Glassman</u>	Date <u>08.01.91</u>
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ATTACHMENT P-1

ATTACHMENT K



4-14-12

State of New Jersey  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS WASTE MANAGEMENT

20 East Clementon Road

Gibbsboro, NJ 08026

(609) 346-8000

Fax No. (609) 346-8010

August 8, 1991

ITT Commercial Finance Corporation  
8251 Maryland Avenue  
Clayton, MO 63105

RE: Vanguard Vinyl Siding Site, Block 110, Lot 3.B, Charles and Water Streets,  
Gloucester City, Camden County, Case #86-07-08-02S.

Dear Sir or Madam:

The New Jersey Department of Environmental Protection has conducted inspections of the above referenced site. The findings of the inspections indicate that several drums of hazardous substance (lubricating oils and heat transfer oils) and laboratory chemicals have been abandoned at the reference site. Furthermore, the inspections revealed that some of the drums might be in a state of deterioration such that a spill or discharge of the hazardous substances is likely. Moreover, there are indications that some spillage had already occurred north of building #3 at area "A" (see enclosed site map and inventory of materials). Our records do not indicate that any cleanup or disposal of hazardous substances has yet taken place.

Therefore, the Department hereby directs ITT Commercial Finance Corporation to immediately initiate the removal of all hazardous substances and all contaminated soils at the Vanguard site. Failure to conduct a timely and effective cleanup will result in administrative action with mandatory penalties.

Enclosed is a Notice of Violation issued pursuant to the Spill Compensation and Control Act (N.J.S.A. 58:10-23.11 et seq.) and regulations promulgated thereunder. Please respond to the Notice of Violation as indicated thereon.

Pursuant to N.J.S.A. 58:10-23.11 et seq., the Department is authorized to assess a civil administration penalty of not more than \$50,000 for each violation. Each day during which the violation continues shall constitute an additional, separate and distinct offense. Any person who willfully or negligently violates this Act shall, upon conviction, be guilty of a crime of the fourth degree and shall be punished by fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than one year, or both. The Department will initiate cost recovery for all administrative costs incurred by the Department in this matter.

Pursuant to N.J.S.A. 58:10-23.11(g)c, the Department shall hold ITT Commercial Finance Corporation jointly and severally responsible, without regard to fault, for all cleanup and removal costs.



Q-1

ITT Commercial Finance Corporation  
August 9, 1991  
Page Two

Failure to conduct a cleanup as directed herein will be interpreted by the Department as recalcitrant and uncooperative behavior and such behavior will be considered in future administrative action.

Please give this office at least three working days notice prior to and site work.

Sincerely,



Armand J. Minardi  
Env. Compliance Investigator

AJM:krb  
Enclosures  
c William Dunfee, DRPSR  
Robert Lentine, CCDH  
case file 2

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

ATTACHMENT <sup>K</sup> 0-2



ATTACHMENT L

New Jersey Department of Environmental Protection  
Division of Hazardous Waste Management  
20 E. Clementon Road  
Gibbsboro, N.J. 08026  
(609) 346-8000

Let's protect our earth



## NOTICE OF VIOLATION

ID NO. 86-07-08-025

DATE August 8, 1991

NAME OF FACILITY Vanguard Vinyl Siding

LOCATION OF FACILITY Gloucester City, Camden County

NAME OF OPERATOR ITT Commercial Finance Corp

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

### DESCRIPTION OF VIOLATION

7:14A-1.2 discharge of a pollutant not in compliance with a valid New Jersey Pollutant Discharge Elimination System Permit.

Remedial action to correct these violations must be initiated immediately and be completed by

August 30, 1991. Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$50,000 per violation.

Germaine J. Minardi  
Investigator, Division of Hazardous Waste Management  
Department of Environmental Protection

B-1

New Jersey Department of Environmental Protection  
Division of Hazardous Waste Management  
20 E. Clementon Road  
Gibbsboro, N.J. 08026  
(609) 346-8000

Let's protect our earth



## NOTICE OF VIOLATION

ID NO. 86-07-08-025

DATE Aug 8, 1991

NAME OF FACILITY Vanguard Vinyl Siding

LOCATION OF FACILITY Gloucester City, Camden County, New Jersey

NAME OF OPERATOR ITT Commercial Finance Corp.

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

### DESCRIPTION OF VIOLATION

58:10-23.11 c Discharge of a hazardous substance  
(petroleum hydrocarbons)

58:10-23.11 e Failure to immediately notify the  
NJDEP of the discharge

Remedial action to correct these violations must be initiated immediately and be completed by

August 30, 1991. Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$50,000 per violation.

Orlando G. Minardi  
Investigator, Division of Hazardous Waste Management  
Department of Environmental Protection

ATTACHMENT

B-2

ATTACHMENT M



08-14-12  
ITT Diversified  
Financial Corporation

August 27, 1991

Armand J. Minardi  
Environmental Compliance Investigator  
State of New Jersey  
Department of Environmental Protection  
Division of Hazardous Waste Management  
20 East Clementon Road  
Gibbsboro, New Jersey 08026

RECEIVED

AUG 28 1991

SOUTHERN BUREAU  
OF FIELD OPERATIONS

Re: Vanguard Vinyl Siding Site, Block 110, Lot 3.B  
Charles and Water Streets, Gloucester City, Camden County  
Case #86-07-08-02S ("Vanguard")

Dear Mr. Minardi:

ITT Commercial Finance Corporation ("Commercial") received your August 8, 1991 letter on August 19, 1991 demanding that Commercial immediately initiate the removal of all hazardous substances and all contaminated soils at the Vanguard site ("the Site"). Commercial expressly denies that it has any responsibility whatsoever for removal and expressly denies any liability.

As you are aware from your conversations with Ed Kleinberg of our office, in 1982 Commercial was granted a mortgage on the Site. With respect to the Site please note: Commercial does not and never has "owned" or "operated" the Site as defined by the Spill Compensation and Control Act. Furthermore, it does not and never has operated the Site by lease, contract or other form of agreement. It did not own or operate the Site immediately prior to any abandonment. It is not and was not the owner of the Site at the time of any discharge. Finally, Commercial does not have any control over the Site, the hazardous substances described in your letter, or the discharge of such substances.

By way of background in the matter, as your agency is already aware, the Owner of the Site (and mortgagor on the mortgage granted Commercial) was Vanguard Vinyl Siding, Inc. ("Owner"). On January 13, 1983, Owner filed a Chapter 11 Bankruptcy Petition. Subsequently, the Owner ceased operations on the Site and the proceeding was converted to a Chapter 7 case (liquidation). In August 1983 ITT received relief from the Bankruptcy Stay and, in September 1983, commenced an action to foreclose on the Site. In connection with that foreclosure, your agency was contacted. Environmental due diligence was conducted on the Site and your agency was advised of the results. In 1986 a decision was made to terminate the foreclosure. Your agency was advised of the decision (see June 6, 1986 letter from your Richard J. Katz attached as Exhibit A.

Armand J. Minardi  
August 27, 1991  
Page 2

The New Jersey statute which you cite, N.J.C.58:10-23-11g, Liabilities for Clean Up and Removal Costs and direct and indirect damages, assesses strict liability for all clean up and removal costs against any person who has discharged a hazardous substance or is in any way responsible for any hazardous substance which the department has removed or is removing.

As demonstrated above, Commercial, as Mortgagee, is not a person who has discharged a hazardous substance or is responsible for any hazardous substance under the terms of this statute. Commercial has taken no action which would trigger the operation of the statute. Moreover, your Mr. Katz's June 6, 1986 letter appears to concur in this position.

For the above reasons, the enclosed notice of violation and request to conduct a clean up is inappropriate.

Very truly yours,

*Kathleen S. Stolar*

Kathleen S. Stolar  
Vice President  
Associate General Counsel

KSS/ph/L50

Enclosure



JUN 9 1986

State of New Jersey  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WASTE MANAGEMENT

HAZARDOUS SITE MITIGATION ADMINISTRATION  
CN 028, Trenton, N.J. 08625

MARWAN M. SADAT, P.E.  
DIRECTOR

JORGE H. BERKOWITZ, PH.D.  
ADMINISTRATOR

06 JUN 1986

Mr. Edward Kleinberg, Sr.  
ITT Diversified Credit Corp.  
8251 Maryland Ave.  
Clayton, MO 63105

RE: Vanguard Vinyl Siding, Inc.  
Gloucester City, Camden County  
ECRA Case #85569

Dear Mr. Kleinberg:

Please be advised that, based upon your April 21, 1986 letter, the referenced case has been closed.

This determination is made in light of the cancellation of the proposed foreclosure by ITT, thereby ending the transaction which triggered the ECRA review.

Any inaccuracies in your statement could alter this decision. Additionally, the current inapplicability of the Environmental Cleanup Responsibility Act (ECRA) does not absolve ITT of any responsibilities it may have under any other environmental statutes and regulations, nor does the Department waive its right to take any actions appropriate under same.

In this regard, be advised that based on previous submissions by ITT, which indicate soil contamination and existing chemical storage, this facility has been referred to the Bureau of Enforcement for immediate action.

Finally, you are advised that a foreclosure by ITT, a sale of operations, or a sale of the real property will subject this facility to our review. Consummation of any ECRA-affected action without compliance with that Act is subject to fines of up to \$25,000 per day.

Any questions you may have in regard to this letter should be directed to me.

Sincerely,

Richard J. Katz, Assistant Chief  
Bureau of Industrial Site Evaluation

HS155:dr

cc: T. Kearns, BISE  
W. Burshtin, DWM-Enf.

New Jersey Is An Equal Opportunity Employer

EXHIBIT A

5-3

ATTACHMENT N

F



VANGUARD VINYL SIDING, INC.  
aka: GAF VANGUARD VINYL SIDING, INC.  
CHARLES AND WATER STREETS  
GLOUCESTER CITY, CAMDEN COUNTY, NEW JERSEY  
EPA ID NO. NJD 982530073

GENERAL INFORMATION AND SITE HISTORY

Vanguard Vinyl Siding, Inc. (Vanguard) encompasses approximately 2.06 acres at Block 110, Lot 3B in Gloucester City, Camden County, New Jersey. The site is bordered to the south and east by GAF Corporation, to the west by the Delaware River and to the north by Koch Fuels, Inc. The estimated population residing within 4.0 miles of the site is 311,300. The nearest residence is located approximately 0.3 mile from the site.

Sanborn Fire Insurance Maps show a hotel and summer cottages at the site from the late 1890s through the early 1900s. Prior to World War I the Pusey and Jones Shipyard (also known as the Pennsylvania Shipbuilding Company) was constructed at the site. It is believed that Lang Mills had an existing paper mill operation adjacent to the shipyard. Prior to 1930, Lang Mills purchased the site and converted it to paper production. In approximately 1935 Lang Mills was acquired by the Ruberoid Company and continued to manufacture paper products. In 1967 Ruberoid merged with GAF Corporation, producers of roofing and flooring grades of felt, vinyl siding and asbestos pipe coverings. Vanguard purchased the site from GAF on August 17, 1981. Prior to the sale of the property, this facility was known as GAF Vanguard Vinyl Siding. Vanguard filed for bankruptcy on January 13, 1983 and subsequently ceased operating at the site. In addition, the principal and chief operating officer of Vanguard, Robert C. Walther also filed for protection under the United States Bankruptcy Code. ITT Diversified Credit Corporation (ITT) was the holder of the mortgage for this facility and wished to foreclose on this mortgage. ITT was advised in 1985 by the NJDEP that a foreclosure sale would trigger the Environmental Cleanup Responsibility Act (ECRA). ITT could not determine any responsible parties who were legally obligated to comply with ECRA.

In an effort to obtain a formal clearance from the NJDEP/ECRA Compliance requirement, ITT filed General Information and Site Evaluation Submissions with the NJDEP/Division of Hazardous Waste Management/Bureau of Industrial Site Evaluation (DHWM/BISE). ITT was concerned that a continuing ECRA Compliance requirement would have a negative impact on bidding at a sheriff's foreclosure sale. ITT stated that by filing the submissions they were not assuming any responsibility for complying with ECRA and should not be construed as a owner or operator for purposes of ECRA. On April 21, 1986 ITT cancelled the proposed foreclosure of the Vanguard facility and withdrew from the ECRA process.

SITE OPERATIONS OF CONCERN

It is believed that asbestos production occurred at the facility from the 1950s until the late 1960s, during the years that the Ruberoid Corporation and GAF Corporation operated at the site. Approximately 12 to 15 percent of the asbestos produced was discarded as solid waste. It was noted in a Preliminary Assessment prepared by the NJDEP/Division of Hazardous Waste Management/Bureau of Planning an Assessment (DHWM/BPA) of the GAF site that former employees stated an area behind the facility and between the Delaware River was used as a dump site for asbestos waste from the plant. Dumping in this area apparently began with the Ruberoid Corporation and continued until approximately 1971.

Aerial photographs of the site from 1946 show what appears to be a pile of material immediately behind the manufacturing building adjacent to the bulkhead on site, in the intertidal zone of the Delaware River. It is not known what this material was. Subsequent photographs show this area to build up and then decline. GAF produced vinyl siding at the site from the late 1960s through 1981. As noted previously this facility had been known as GAF Vanguard Vinyl Siding.

Actual operating procedures could not be determined, although information supplied on the Site Evaluation Submission (filed by ITT Diversified Credit Corporation, the mortgage holding company) stated that Vanguard produced vinyl siding for homes and other buildings. Limited information speculated that polyvinyl chloride resins, stabilizers and pigment were used in the production process. Resin was stored in silos and mixed with stabilizers and pigments at the blend area. After blending, the mixture was extruded in one of six extrusion lines. A machine shop, dye shop, electrical shop, millwright shop, welding shop and quality control laboratory were maintained on the premises.

Areas of concern at the site were determined by BCM of Plymouth Meeting, Pennsylvania. Although no documented spills were noted at the site, visual inspection by BCM in 1985 of several areas discovered evidence of possible spills. Area A, a truck loading area on the north side of Building 3, was used as a shipping/receiving area for raw materials and finished products. Three silos storing vinyl pellets were located between the loading area and the manufacturing building. Initial sampling at Area A detected elevated levels of phthalates and petroleum hydrocarbons (PHCs). Area B is located outside of a door on the northeast side of the main building. Visual inspection and initial sampling by BCM confirmed spillage in this area from a drum storage rack located just inside the building. Area C is located inside the manufacturing building and consists of an area of exposed ground surrounded by concrete flooring. Visual observation and initial sampling by BCM indicated spillage of polyvinyl chloride (PVC) resins and pigments.

An inspection was conducted at the site on July 15, 1986 by the Camden County Department of Health. Noted inside the building was a considerable amount of plastic resin material stored in open boxes, labeled acetaminophen powder. Several containers and bags of dye products were also observed, many of which had spilled on the floor. Approximately 20 unlabeled 55-gallon drums and several 55-gallon drums of thermolite were observed in the building. In addition, ten 55-gallon drums of light weight oils, solvents, heat transferring fluids and automobile transmission fluid were observed. Located in the laboratory were bottles (approximately 1,000 ml) of trichloroethane, methylene chloride and cyclohexanone. Several unlabeled containers were discovered as well as dye material which had been spilled on the floor. A 55-gallon drum of asbestos insulation and an approximately 20-gallon container marked corrosive was noted lying on the floor near a floor drain. Evidence of leakage was noted near this container. Outside the manufacturing building to the north were three unlabeled 55-gallon drums some of which exhibited leakage at the bung holes. One unlabeled 55-gallon drum was noted lacking a bung cap. In addition, six to eight empty drums were discovered in this area, some were empty while others appeared to have expanded or ruptured at the seams.

On September 4, 1986 the NJDEP/Division of Hazardous Waste Management/Southern Bureau of Field Operations conducted an initial investigation of the Vanguard site with a representative of the Camden County Department of Health. Entry to the site was supplied by an unidentified employee of the adjacent GAF facility. Discovered in the building were apparently the same conditions as listed in the July 15, 1986 inspection. Noted in manufacturing Building No. 3 were several areas of spilled material which were unidentifiable. Outside the building at the north yard area were three silos containing what appeared to be different color dye materials; spillage on the asphalt around the exterior of the silos was noted. As mentioned previously located along the north fence were numerous unlabeled drums, some contained material, others were empty and exhibited bulging tops and bottoms. Evidence of spillage was noted on the soil in this area.

ENCLOSURE 12-2

An investigation was conducted at Vanguard on November 3, 1988 by the NJDEP/SBFO and the Camden County Department of Health. Access to the site was obtained by a security guard at the adjacent GAF facility. Noted in the laboratory area were containers of methylene chloride and trichloroethene (TCE). Building No. 10 contained ten drums of various types of petroleum products stored in the drum storage rack and numerous boxes containing titanium pigments, phthalate and polyvinyl chloride resins. In addition, other substances such as Thermolite 137 were noted in this building. Solid waste was noted both inside as well as outside the buildings. North of Building No. 3 were 15 drums, one drum was half-filled with a light oil, two drums were filled with an unknown substance, the remaining drums appeared to be empty.

The NJDEPE received an incident notification report on August 1, 1991 regarding a possible discharge of hazardous substances at Vanguard (the name of the facility listed on the report was GAF). Investigation of the incident by the Camden County Department of Health and the Gloucester City Fire Department discovered approximately twelve to fifteen 40-gallon drums of polyvinyl chloride (in powder/pellet form) at the site. The drums were noted as being abandoned and spilling and appeared to have been vandalized. This incident was referred to the NJDEPE/Division of Responsible Party Site Remediation/Southern Bureau of Field Operations (DRPSR/SBFO).

A Pre-Sampling Assessment (PSA) was conducted at Vanguard on February 20, 1992 by the NJDEPE/Division of Responsible Party Site Remediation/Bureau of Site Assessment (DRPSR/BSA) in conjunction with the Emergency Management Coordinator for Gloucester City. Located inside manufacturing Building No. 10 was a 55-gallon drum of ethylene glycol (antifreeze). Three additional drums contained suspected asbestos material. Three unlabeled partially full 55-gallon drums were located in a small room at the west end of this building, a fourth drum was labeled as ethylene glycol.

Manufacturing Building No. 3 contained the laboratory, no full bottles of product were discovered during this inspection. The floor was littered with broken glass and covered with dye material spilled from containers.

During the PSA ten 55-gallon drums were observed at the drum storage rack; most of the drums were lacking bung caps. Some of the drums were empty some were partially full. Two additional 55-gallon drums were noted next to the drum storage rack. The drums in this area were labeled as DTE light oil, gear oil, safety solvent and lubricating oil.

The last room inspected contained boxes of powder material labeled as acetaminophen powder. In addition, containers and drums of 2-diethylhexyl phthalate, acrylic resin, sicostab R335, Thermolite 137, titanium pigment and Stanclere 233 were observed by BSA personnel.

Noted throughout the building was suspected asbestos piping and pipe coverings. In many areas this material appeared to be in a degraded state and in some locations had deteriorated and fallen onto the floor.

Outside the buildings along the north fence line were three 55-gallon drums (one crushed) lying in the vegetation. Directly west of this area were approximately nine 55-gallon drums many of which had expanded at both ends and ruptured at the seams. Most of these drums appeared to be empty. Four unlabeled 55-gallon drums were noted standing upright in this area, three appeared to be leaking.

#### GROUNDWATER ROUTE

Vanguard is located near the western boundary of the Atlantic Coastal Plain Physiographic Region. Underlying this area are unconsolidated sediments of Quaternary, Tertiary and Cretaceous age consisting of alternating layers of sands, silts and clays. These sediments are approximately 250 feet thick at the site and thicken eastward towards the Atlantic Ocean.

The most productive source of groundwater in Camden County is the Potomac- Raritan/Magothy Aquifer system. This system consists of aquifers composed of sand and some gravel and confining units composed of silts and clays, and is overlain in the outcrop area by highly permeable Pleistocene sand and gravel. The sands are divided into three hydrologic units, an upper, middle and lower aquifer. The Magothy Formation comprises the upper unit; the middle and lower units are composed of sands of the Raritan Formation and the Potomac Group.

The Magothy and Raritan Formations consist of alternating beds of sand, gravel and clay. The Raritan Formation is predominantly light colored, where as the magothy beds include some darker lignitic and glauconitic material. The maximum thickness of the Magothy and Raritan Formations in the Camden area is approximately 240 feet.

No production wells or monitoring wells are located on site.

Gloucester City Water Department operates four wells approximately 0.85 mile from the site. Depths of the wells range from 260 feet to 306 feet; all wells tap the Raritan/Magothy Aquifer. Approximately 12,500 residents are serviced in Gloucester City by this system.

Brooklawn Water Department operates three wells approximately 0.86 mile from the site. Depths of the wells range from 293 feet to 327 feet; all tap the Raritan/Magothy Aquifer. Approximately 2,520 residents in Brooklawn are serviced by this system.

National Park Water Department operates two wells approximately 3.3 miles from the site. One well is 282 feet deep, the other 275 feet, both wells tap the Raritan/Magothy Aquifer. Approximately 3,550 residents in the Borough of National Park are serviced by this system.

New Jersey American Water Department operates five wells within a 3-to 4-mile radius of the site. Two additional wells are located approximately 2.9 miles from the site. All wells tap the Raritan/Magothy Aquifer and range in depth from 190 feet to 598 feet. Approximately 23,440 residents are serviced by this system in sections of Haddon Heights and Runnemede.

Collingswood Water Department operates six wells 3 to 4 miles from the site. A seventh well is located approximately 2.4 miles from the site. The seven wells range in depth from 281 feet to 318 feet, all tap the Raritan/Magothy Aquifer. Collingswood Water Department services approximately 20,000 residents in Collingswood, a section of Woodlyn and a section of Haddon Township.

Bellmawr Water Department operates two wells approximately 1.55 miles from the site. Average depth of the wells is 373 feet. Two additional wells are located approximately 2.55 miles from the site, average depth of the wells is 560 feet. All wells tap the Raritan/Magothy Aquifer. Approximately 9,520 residents are serviced by this water system, approximately half of Bellmawr Borough.

Camden City Water Department operates three wells which service the Parkside Treatment Plant. The wells are approximately 3.3 miles from the site and range in depth from 230 feet to 290 feet. All three wells tap the Raritan/Magothy Aquifer, approximately 20,000 residents are serviced in the Camden City area.

West Deptford Water Department operates one well 2.6 miles from the site. A second well is 3.3 miles from the site. The wells are approximately 365 feet deep and tap the Raritan/Magothy Aquifer. The two wells are part of an interconnected water system which is comprised of a total of seven wells. Approximately 19,000 residents are serviced by this system and approximately 64 residents are served by private wells in West Deptford Township. In addition, approximately four industries in the area are serviced by private wells.

Westville Water Department operates three wells approximately 1.3 miles from the site. Depths of the wells range from 274 feet to 317 feet, all wells tap the Raritan/Magothy Aquifer. Approximately 7,000 residents are serviced in Westville and portions of Deptford and West Deptford.

Deptford Township Municipal Utilities Authority operates one well approximately 2.6 miles from the site. It is 363 feet deep and taps the Raritan/Magothy Aquifer. Approximately 1,100 residents are serviced in a section of Deptford Township.

Woodbury Township Water Department operates two wells in a 3- to 4-mile radius from the site. One well is 188 feet deep, the other is 305 feet deep; both tap the Raritan/Magothy Aquifer. The wells are part of an interconnected system (with a total of five wells) which service approximately 11,920 residents in Woodbury, West Deptford, Deptford, Wenonah and Woodbury Heights.

Haddon Township Water Department operates four wells in a 3- to 4-mile radius from the site. The wells range in depth from 448 feet to 487 feet, all tap the Raritan/Magothy Aquifer. Approximately 12,000 residents are serviced by this system in Haddon Township.

The potential for groundwater contamination may exist at the site if contaminants detected in the soil have leached into the groundwater.

#### SURFACE WATER ROUTE

Vanguard is located adjacent to the Delaware River to the west. Runoff from the site could flow into the Delaware River, which flows south from the site. The Delaware River from river mile 108.4 to below the mouth of Big Timber Creek is classified as Zone 3. Designated uses in Zone 3 include agricultural, industrial and public water supply after reasonable treatment; wildlife, maintenance of resident fish and other aquatic biota; migration of anadromous fish; secondary contact recreation; and navigation.

Vanguard did not hold a New Jersey Pollutant Discharge Elimination System (NJPDDES) permit for their facility. It was noted on the General Information Submission that Vanguard discharged sanitary and/or industrial wastes to the Gloucester City Sewage Authority.

The Delaware River is tidal at the site, located between river mile 106 and river mile 97 in New Jersey are numerous industrial intakes. The City of Philadelphia operates one drinking water intake on the Delaware River at Torresdale, Pennsylvania. This intake is approximately 14.7 miles upstream from the site.

Two coastal wetlands (tidal flats) are located downstream from the site. One area is approximately 80 acres in size and is less than 0.75 mile from the site. The second area is approximately 320 acres in size and is approximately 1.5 miles downstream from the site.

Aerial photographs from the 1940s show what appears to be a pile of material located adjacent to the bulkhead on site. This material appears to increase and then diminish in size throughout the years. It is not known if this material was asbestos waste which had been allegedly dumped behind the facility during the years it was operated by the Ruberoid Company and GAF Corporation.

Habitat known to be utilized by a New Jersey State endangered or threatened specie is located approximately 7.5 miles upstream from the site. Twelve threatened or endangered species in New Jersey utilize habitats such as those found in USGS Philadelphia, Woodbury, Runnemede and Camden, New Jersey, Pennsylvania Quadrangles. They include the shortnose sturgeon (Acipenser brevirostrum), American shad (Alosa sapidissima), pine barrens treefrog (Hyla andersonii), brook trout (Salvelinus fontinalis), northern pine snake (Pituophis melanoleucus), bog turtle (Clemmys muhlenbergii), wood turtle (Clemmys insculpta),

peregrine falcon (Falco peregrinus), red-shouldered hawk (Buteo lineatus), black rail (Laterallus jamaicensis), upland sandpiper (Batramia longicauda), and Henslows sparrow (Ammodramus henslowii).

#### AIR ROUTE

No air sampling has been conducted at the site. The potential for air contamination does not appear to exist at this site.

#### SOIL

Soil at the site is classified as Downer-Woodstown-Dragston series which includes gently sloping, grayish-brown sandy soils. The Downer series consists of dark grayish-brown, well-drained soils that have a yellowish-brown subsoil containing only slightly more clay than the surface layer. These soils are nearly level to gently sloping. Soils of the Downer-Woodstown-Dragston series are rapidly permeable to moderately permeable.

BCM of Plymouth Meeting, Pennsylvania conducted limited soil sampling at the site in November 1985. Three areas of concern were noted at the site. Area A was a truck loading/unloading area and the location of miscellaneous drum storage. Visual observations indicated possible spills at this location in the past. Petroleum hydrocarbons (PHCs) were detected at this area at 9,080 ppm below the NJDEPE proposed cleanup standard of 10,000 ppm; 1,2-dichloroethane was detected at 1.08 ppm, below the NJDEPE proposed cleanup standard of 24 ppm; di-(ethylhexyl) phthalate and di-N-octyl phthalate were detected at 7.56 ppm and 11.5 ppm, respectively.

Area B is an area which received run off from the drum storage rack located in manufacturing Building No. 3. Initial sampling results detected PHCs at 15,800 ppm; above the NJDEPE proposed cleanup standard of 10,000 ppm; trans-1,2-dichloroethene at 2.70 ppm below the NJDEPE proposed cleanup standard of 10,000 ppm; and trans-1,3-dichloro-propylene at 2.01 ppm, below the NJDEPE proposed cleanup standard of 5 ppm.

Area C is an area of uncovered ground inside manufacturing Building No.3, spilled at this area were PVC resins and pigments. Lead was detected at this area at a concentration of 141 ppm below the NJDEPE proposed cleanup standard of 600 ppm.

Additional sampling was to occur at all three areas to delineate the extent of contamination. In April 1986 ITT Diversified Credit Corporation withdrew Vanguard from the ECRA process; all remedial activities ceased at the site at this time.

#### DIRECT CONTACT

It was noted during the Pre-Sampling Assessment (PSA) conducted by the NJDEPE/DRPSR/BSA on February 20, 1992 that a hole exists in the fence along the western perimeter of the Vanguard site. Access to the site by the off-site population is easily obtained at this area. Several doors of the manufacturing buildings were found to be unlocked during the PSA, and are a significant matter of concern. The Emergency Management Coordinator for Gloucester City stated that adolescents are known to frequent the facility and use the ramp inside the manufacturing building for skateboarding. Observed inside the building were areas where small fires appear to have been started. Evidence of vandalism was noted throughout the inside of the buildings, containers of dye material were thrown and broken on the floor at several locations, graffiti was noted on the walls and numerous windows in the building were broken. The laboratory in manufacturing Building No. 3 was littered with broken glass bottles. Strewn across the floor in this area were broken bottles, spilled dyed material and additional material. It had been previously noted in a November 3, 1988 site investigation by NJDEP/DHWM/ SBFO that containers of methylene chloride and TCE were located in the laboratory.

Suspected friable asbestos material is also located throughout the building.

#### FIRE AND EXPLOSION

Located throughout the manufacturing building on site were several areas where fires had been started. Evidence of vandalism is prevalent throughout the site. Unlabeled 55-gallon drums are located at several locations inside and outside the buildings, it is not known if the product contained in the drums is flammable and/or combustible.

The Material Safety Data Sheets submitted for Stanclere T-233P (a substance located inside the buildings) noted that the possibility of dust explosions exists for this product.

#### ADDITIONAL CONSIDERATIONS

No damage to flora or fauna appeared at the site during the February 20, 1992 NJDEPE Pre-Sampling Assessment. No contamination to off-site property has been documented. Contamination of the Delaware River may have occurred if asbestos waste material had been dumped behind the facility, adjacent to the bulkhead on site.

#### ENFORCEMENT ACTIONS

On November 5, 1986 Vanguard was issued a Notice of Violation by the NJDEP/ DHWM/BSFO for discharging a hazardous substance and failure to notify the NJDEP.

On May 23, 1991 an investigation of the Vanguard site was conducted by the NJDEP/DHWM/SBFO. It was noted that conditions at the site had remained virtually unchanged since 1988. It was recommended at this time that an Administrative Order (AO) be issued to the responsible party/property owner. It was determined by the NJDEPE that ITT Diversified Credit Corporation (the mortgage holding company) could not be held as a responsible party, therefore no AO was ever issued.

On August 8, 1991 the NJDEPE/Division of Responsible Party Site Remediation/ Southern Bureau of Field Operations (DRPSR/SBFO) issued a Notice of Violation to Vanguard for discharging a hazardous substance (petroleum hydrocarbons) and failure to immediately notify the NJDEPE of the discharge. An additional violation was issued on this date for discharge of a pollutant not in compliance with a valid New Jersey Pollutant Discharge Elimination System Permit.

#### PRIORITY DESIGNATION

A medium environmental concern is assigned to this site. Soil at the site is contaminated with petroleum hydrocarbons and volatile organic compounds at several areas. Of concern is the use of this site by the off-site population.

#### RECOMMENDATIONS

It is recommended that the fencing along the western perimeter of the site be replaced immediately. The site should be secured to prevent further vandalism from occurring and to eliminate the threat of direct contact by the off-site population. An asbestos assessment should be conducted at the site. Friable asbestos should be removed from the manufacturing buildings. On March 11, 1992 the NJDEPE/DRPSR/Bureau of Field Operations - Site Assessment Section submitted this site to the USEPA, Removal Action Branch for consideration of a CERCLA removal action.

Submitted by:

Eileen Stewart  
Hazardous Site Mitigation  
Specialist Trainee  
Bureau Field Operations  
March 18, 1992

ATTACHMENT 1.2

VANGUARD VINYL SIDING, INC.  
AKA:GAF VANGUARD VINYL SIDING  
CHARLES & WATER STREETS  
GLOUCESTER CITY, CAMDEN COUNTY, NEW JERSEY  
EPA ID. NO. NJD982530073

ADDENDUM

On March 11, 1992 the USEPA, Removal Action Branch received a request from the NJDEPE/DRPSR/BFO-Site Assessment Section to evaluate the Vanguard site for CERCLA Removal Action consideration. The Technical Support Section of the USEPA collected samples at the site on April 1, 1992 for hazard categorization. Analysis of the samples collected supported but did not confirm the presence of PVC resin. Additional samples were collected on April 16, 1992 at the site by the USEPA Technical Support Section. Laboratory analysis detected the presence of elevated levels of tetrachloroethylene, toluene and xylene in some of the drums (data is considered preliminary since quality control validation has not been completed). In addition, PVC resin and asbestos related material (chrysotile) at 2 to 3 percent was confirmed in several samples.

It was concluded that a release of CERCLA designated hazardous substances has occurred at Vanguard. The threat of exposure through direct contact with hazardous substances abandoned at the site is present. Additionally, the potential for a serious release resulting from a fire exists at the site. It was recommended that a CERCLA Removal Action be conducted at Vanguard. Suggested areas to be addressed include the containerized and spilled material located inside and outside the building, asbestos material noted in boxed containers, boxed and spilled PVC resin and four electrical transformers potentially contaminated with polychlorinated biphenyls.

Submitted by:

Eileen Stewart  
September 16, 1992



ATTACHMENT O



State of New Jersey  
Department of Environmental Protection and Energy

Division of Responsible Party Site Remediation

CN 028

Trenton, NJ 08625-0028

Tel. # 609-633-1408

Fax. # 609-633-1454

Scott A. Weiner  
Commissioner

Karl J. Delaney  
Director

MAR 11 1992

Kathleen C. Callahan  
Emergency and Remedial Response Division  
U.S. Environmental Protection Agency  
26 Federal Plaza  
New York, New York 10278

Re: Removal Request - Vanguard Vinyl Siding  
Charles and Water Streets  
Gloucester City, New Jersey

Dear Director Callahan:

The New Jersey Department of Environmental Protection and Energy (NJDEPE) hereby submits the Vanguard Vinyl Siding site for CERCLA removal action consideration. The following information details the case history and supports the removal request.

Vanguard Vinyl Siding (Vanguard) was a former manufacturer of vinyl siding which operated from 1981 to 1983 when the company and company CEO filed for bankruptcy. The abandoned 2.06 acre facility, listed as Block 110, Lot 3B, is located in an industrial section of Gloucester City along the Delaware River. Historical site activities in the 1950s and 1960s, while under ownership by the Ruberoid Corporation (merged with GAF in 1967) included the production of asbestos piping and asbestos shingles. During this period asbestos waste was suspected of being disposed of on site.

A Pre-sampling Assessment conducted by the NJDEPE, Division of Responsible Party Site Remediation (DRPSR), Bureau of Site Assessment (BSA) on February 20, 1992 indicated the presence of approximately thirty containers of varying sizes and states of condition. Labels and markings indicate that materials stored in these containers may include the following: ethylene glycol, oils, solvents, asbestos, 2-diethylhexyl phthalate, acrylic resin and titanium pigment. In addition, several unlabeled drums were also present on site and the chemical contents of shattered laboratory reagents were found strewn throughout the lab area.

Notices of Violation issued by the Department to Vanguard on November 5, 1986 and August 8, 1991 were met without response. ITT Diversified Credit Corporation, the current mortgage holding company, refuses to foreclose on the property as it would trigger an ECRA response. ITT views the mortgage

as uncollectible and has thus distanced itself from all cleanup responsibilities.

Although the site perimeter is fenced, access onto the property via a hole remains unimpeded. The buildings on site remain open and are visited on a regular basis by local children and adolescents as evidenced by graffiti, campfire remains and a portion of the building used as a skateboard ramp. It is likely that the laboratory damage was caused by these trespassers.

The Department requests that the EPA stabilize the site by repairing the fence; sealing all access points into the building; and sampling, characterizing, over packing and disposing of all chemical and asbestos related material in such a manner as to safeguard the health and welfare of the local population.

Should your staff require additional information, please have them contact David Triggs of the Bureau of Site Assessment at (609) 584-4289.

Very truly yours,

Karl J. Delaney  
Director

c: Richard Salkie, USEPA  
George Zachos, USEPA  
Assistant Director Howitz, Discharge Response Element  
Chief Van Fossen, Bureau of Site Assessment

ATTACHMENT P

16 1992  
DATE: JULY 30 1992  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION II

SUBJECT: Transmittal of Removal Site Evaluation for Vanguard Vinyl Siding, Inc., Gloucester City, New Jersey

FROM: Richard C. Salkie, Associate Director for Removal and Emergency Preparedness Programs

TO: Delmar Karlen, Chief  
New Jersey Superfund Branch

Attached is a copy of the Removal Site Evaluation for Vanguard Vinyl Siding, Inc. The site is eligible for a CERCLA Removal Action. Please assign an attorney to the site as previously requested. Should you have any questions please call me at 908-321-6658 or George Zachos at 908-321-6621.

Attachment

cc (w/attachment): G. Zachos, ERR-RAB  
D. Santella, ERR-PRTS ✓  
S. Becker, ERR-PIMS

EILEEN FYI -

Please forward to

Dave -T.  
Thanks

R

COPY TO:  
Ken Kloo  
original  
to SITE  
FIEC  
NJD 982530073

ATTACHMENT 1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION II

JUN 17 1992

Removal Site Evaluation for the Vanguard Vinyl Siding, Inc.,  
Gloucester City, New Jersey

Nick Magriples, On-Scene Coordinator *Nick Magriples*  
Technical Support Section

File

Site I.D. No.: 9E  
Removal Assessment Ranking: 7

I. INTRODUCTION

On March 11, 1992, the United States Environmental Protection Agency (EPA), Removal Action Branch, received a request from the State of New Jersey Department of Environmental Protection and Energy (NJDEPE) to evaluate Vanguard Vinyl Siding, Inc. for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Removal Action consideration.

There has been a release of CERCLA designated Hazardous Substances at Vanguard Vinyl Siding, Inc (VVS). The threat of exposure through direct human contact with the abandoned containers of contaminated oils, pigments, organotin stabilizers, and exposed asbestos is present. The fenced property and the building itself has been accessed as evidenced by fire charred floors, graffiti and a skateboarding ramp. Although a fence surrounds VVS, there are holes cut in several areas of the fence that allow for access to the site. The building itself has numerous access points ranging from open doors to broken windows and holes in the walls.

The threat of a serious release resulting from a fire exists, due to vandalism. Spot fires have been documented by the Gloucester City Fire Department. There are large amounts of paper debris scattered throughout the building and a portion of the building, including the roof, is constructed of wood. A fire would result in the degradation of potentially large amounts of the PVC resin, and the subsequent release of harmful substances. The release would affect a residential neighborhood which begins approximately 1,000 feet from the site and includes numerous schools and churches, as well as a senior citizens apartment complex, within a half-mile of the site.

Although PVC resin is neither a CERCLA designated Hazardous Substance nor a pollutant or contaminant, other situations or factors exist that constitute a significant threat. Additionally, there does not appear to be any other available mechanisms for response from either the owners, the NJDEPE or Gloucester City.

## I. SITE CONDITIONS AND BACKGROUND

### A. Site Description

#### 1. Physical location

VVS is located at the intersection of Charles and Water Streets in Gloucester City, Camden County, New Jersey. VVS occupies approximately 2.06 acres, listed as Block 110, Lot 3B, in an industrial section of the city. The site is bounded by Water Street to the east, a vacant facility owned by GAF to the south, the Delaware River to the south and Koch Fuel Terminal to the north (see Figure 1). The nearest residential area to the site is less than 1,000 feet away. A large apartment complex (Gloucester Towne), housing an estimated 100-200 senior citizens, is located approximately 2,000 feet northeast of the facility and several schools, churches and parks/playgrounds are less than 1/2 mile from the facility.

#### 2. Site characteristics

VVS operated at the site from 1981 through 1983. During its operations, VVS produced plastic siding for homes and other buildings. It is reported that the raw materials, including polyvinyl chloride (PVC) resin, stabilizers, plasticizers and pigments were delivered by truck or rail car. The resin was stored in silos and mixed with the stabilizers and pigments. After blending, the mixture was extruded in one of a total of six extrusion lines. Other operations at the site in support of process operations included, a machine shop, die shop, electrical shop, millwright shop, a welding shop and a quality control laboratory.

Historical site activities in the 1950s and 1960s, while under ownership by the Ruberoid Corporation (merged with GAF in 1967), included the production of asbestos piping and asbestos shingle.

The VVS facility consists of two buildings, Manufacturing Building Nos. 3 and 10, that have been interconnected by smaller structures (see Figure 2). Area A was a truck loading area on the north side of Building 3. Raw materials and finished products were received and shipped from this area. Three silos used for storing vinyl pellets are also located between the loading area and the manufacturing building. Area B is located just outside of the door on the northeast side of the main building. This area was reported to have received spillage from a drum storage rack located just outside the building. Both visual and initial sampling results, conducted by a consultant (1985) for the owner, reportedly confirm that spillage did occur in this area. Area C is located inside the plant and consists of an area of exposed ground surrounded by concrete flooring.

3. Release or threatened release into the environment of a hazardous substance, or pollutant or contaminant

On March 6, 1985, samples were collected by a consultant to the owner as part of an initial evaluation of the VVS Site. Soil samples collected from Area A indicated the presence of petroleum hydrocarbons (9,080 ppm), 1,2-dichloroethane (1.08 ppm), tetrachloroethane (0.70 ppm) and di-n-octyl phthalate (11.5 ppm). Samples collected from Area B indicated elevated levels of petroleum hydrocarbons (15,800 ppm), trans-1,2-dichloroethylene (2.70 ppm) and trans-1,3-dichloropropylene (2.01 ppm). Samples collected from Area C indicated PVC resins, pigments and low levels of volatile organics and lead.

According to an inventory of drums developed by the same consultant, and partially confirmed by the Technical Support Section on subsequent site visits, there are approximately 50 - 70 containers of varying size within and outside of the buildings containing oils, pigments, organotin stabilizers, asbestos, PVC resins and some unknowns; 60 - 70 boxes (65 cubic feet each) of powders that may be PVC resin; and 35 bags of an unknown powder contained within the buildings at the VVS Site. The floors of some of the rooms are covered in either pigment or PVC powder. There are also 30 - 50 empty containers, and large amounts of debris and finished PVC products scattered throughout.

Samples were collected at the VVS Site by the Technical Support Section on April 1, 1992 for hazard categorization. These analyses supported, but did not confirm, the presence of PVC resin. Samples collected on April 16, 1992 by the Technical Support Section for confirmatory laboratory analyses detected the presence of elevated levels of tetrachloroethylene, toluene and xylene in some of the drums that were sampled (Note: this data is considered preliminary since the quality control validation has not been completed). Additionally, the presence of PVC resin and asbestos related material (chrysotile) at 2-3% was confirmed in several of the samples.

All of the materials listed above, except for petroleum hydrocarbons, PVC resin and organotin compounds, are CERCLA designated Hazardous Substances, as listed in 40 CFR Table 302.4. Some organotin compounds could be classified as pollutants or contaminants, as described by section 101(33) of CERCLA. Section III.A. of this report discusses the potential health threats associated with the PVC resin, during thermal decomposition, and the organotin compounds. The analytical data presented above is a summary of the most significant data available from the aforementioned reports.

The mechanism for past releases at the VVS Site appears to have been spills, poor housekeeping practices and illegal disposal practices. It is reported that there are buried drums in the



vicinity of Area A and asbestos buried somewhere on the property. The mechanism for future releases to the air and soil include deterioration of the containers, and improper disturbance of the containers and asbestos by trespassers documented to have entered the building. A fire in the area where the PVC resin is present could result in a release of hydrochloric acid and vinyl chloride vapors to the nearby residential community. According to the Gloucester City Emergency Management Coordinator (EMC), a release of smoke was simulated using CAMEO and the results indicated that, based on the prevailing winds, the plume would spread over the senior citizens apartment complex and the remainder of Gloucester City.

#### 4. Site assessment activities/observations

The following EPA personnel were directly involved in the Removal Assessment conducted for the Vanguard Vinyl Siding Inc. Site: Nick Magriples (908-906-6930) and Robert Montgomery (908-906-6934) of the Technical Support Section, Edison, New Jersey.

The Technical Support Section conducted site visits on April 1 and April 16, 1992 in order to assess the current status of the site and the magnitude of the situation. Access was provided by the EMC for Gloucester City. On these two days, the OSCs and TAT inspected the structures, conducted air monitoring, completed a preliminary inventory of the materials inside of the buildings, hazard categorized six samples and subsequently collected twelve samples for laboratory analyses.

Hazard categorization testing revealed that the powders believed to be PVC gave off copious amounts of smoke and contained ignitable vapors. OVA readings of the vapors were greater than 1,000 units above background. The material showed slight indications of the presence of chlorine.

Five different powders, white to beige in color, that are believed to be raw materials, were sent for confirmatory laboratory analysis for product identification by an Infra-Red method. One of the samples (VIR1) was collected from material spilled in the QC laboratory powder located on the west side of the building. The other four samples (VIR2 - VIR5) were collected from material either accumulated in 4x4x4 foot open top boxes or spilled from damaged containers. It was suspected that these materials were either PVC resin or stabilizers used in the production process. Four of the five samples were found to contain PVC resins.

Two of the samples (VA-1, VA-2) sent for laboratory analysis were collected from the courtyards at the center of the building. Amidst the grass in this area were indications of a fine, fibrous, white powder that appeared to continue with depth. Based on the reports of buried asbestos material and the physical appearance of this material, these samples were sent to a laboratory for asbestos

analysis by the Polarized Light Microscopy (PLM) method. - The samples were found to contain 2-3% chrysotile asbestos.

Samples were collected from five drums at the site and sent for Target Compound List/Target Analyte List (TCL/TAL) analyses (see Section II.A.3). This data is considered preliminary since the quality control validation has not been completed.

Air monitoring conducted in the abandoned structure and around the outside of the facility using an OVA, HNU, explosimeter and radiation meter did not detect any readings above background. While sampling the containers on April 16, readings greater than 1,000 units above background were detected in two of the drums. One of these were located outside of the building on the northern end.

According to the EMC, there are four transformers at the site. One is located outside of the building on the east side along the fence line, another is located outside the building on the north side within a fenced area that has been damaged, and two are within a fenced area in the courtyard. The EMC believes that some of these may contain PCB fluids within. The transformers themselves do not appear to have been damaged, however the fence around the one on the northern end has been damaged and now serves as one of the points of access into the building.

It should be noted that the contents of the white silos on the northern end of the site were not determined. It is reported that at the time VVS was operating, they were used for storage of PVC resin. A large black/brown silo on the roof of building was noted to be empty based on observations from an opening at the bottom. Additionally, there is a large amount of finished vinyl siding and other similar products stored inside the southern end of the building.

#### 5. NPL status

VVS is not a National Priorities List (NPL) site. The Agency of Toxic Substances and Disease Registry (ATSDR) has not been requested to conduct a health assessment for the site.

#### B. Other Actions to Date

##### 1. Previous actions

There have been no other previous Federal actions taken at the site.

##### 2. Current actions

Currently, there are no Federal actions taking place at the site.

### C. State and Local Authorities' Role

#### 1. State and local actions to date

The NJDEPE sent a letter to the Emergency and Remedial Response Division (ERRD) requesting that EPA stabilize the site by repairing the fence; sealing all access points into the building; and sampling, characterizing and disposing of all chemical and asbestos related material.

Notices of Violation issued by the Department to Vanguard on November 5, 1986 and August 8, 1991 were met without response. ITT Diversified Credit corporation, the mortgage holding company, refuses to foreclose on the property as it would trigger the Environmental Cleanup Responsibility Act (ECRA). According to the NJDEPE, ITT views the mortgage as uncollectible and has thus distanced itself from all cleanup responsibilities.

#### 2. Potential for continued state/local response

Other than discussed above, there are no other State/local actions taking place at the site.

### III. THREAT TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

#### A. Threats to the Public Health or Welfare

The threat of exposure through direct human contact with the abandoned containers of contaminated oils, pigments, organotin stabilizers, and exposed asbestos is present at VVS. The fenced property and the building itself has been accessed as evidenced by fire charred floors, graffiti and a skateboarding ramp. The EMC has reportedly spoken with some of these children entering the site and warned them of the dangers present inside of the building.

The threat of a serious release resulting from a fire exists, due to vandalism. Spot fires have been documented by the Gloucester City Fire Department and there locations noted during recent site visits. There are large amounts of paper debris scattered throughout the building and a portion of the building, including the roof, is constructed of wood. A fire would result in degradation of the PVC resin, of which 20-30 tons are estimated to be present within the buildings, and the subsequent release of harmful substances.

The release would affect a residential neighborhood which begins approximately 1,000 feet from the site. There are numerous schools and churches in this area, as well as a senior citizens apartment complex, within a half-mile of the site. Although a fence surrounds VVS, there are holes cut in several areas of the fence that allow for access to the site. The building itself has

numerous access points ranging from open doors to broken windows and holes in the walls.

Although PVC resin is neither a CERCLA designated Hazardous Substance nor a pollutant or contaminant, other situations or factors exist that constitute a significant threat. Additionally, there does not appear to be any other available mechanisms for response from either the owners, the NJDEPE or Gloucester City.

PVC is very difficult to ignite and will not burn freely unless there is a supporting flame. PVC can not be the source of ignition for a fire. However, unplasticized PVC softens as it burns, producing white smoke and acrid fumes, which can be corrosive. Research at Ohio State University has revealed that the amount of hydrogen chloride released increases considerably (almost exponentially) with the greater the intensity of the fire. Also shown was that the release of heat by PVC, relative to other plastic materials is less. The onset of thermal degradation of PVC occurs at a range of 505-889 degrees F. A typical fire burns at approximately 1,600 degrees F. PVC generates a heat of combustion of approximately 17,910 BTU/pound. As a comparison, wood and polyethylene film generate 8,613 BTU/pound and 19,161 BTU/pound, respectively.

The possible final combustion products of PVC are carbon, carbon dioxide, carbon monoxide, water and hydrogen chloride, an irritant gas that forms hydrochloric acid when it dissolves in water. Possible intermediate compounds that may form include formaldehyde, acetaldehyde and acrolein. When exposed to these elevated temperatures, polyvinyl polymers also often thermally decompose to their respective monomers. In the case of PVC, the monomer is vinyl chloride.

When inhaled, hydrogen chloride gas may cause serious destructive damage to the mucous membranes. Furthermore, carbon particulates in smoke adsorb hydrogen chloride. When smoke is inhaled, these particulates are likely to bypass the body's upper respiratory system mucous membranes and become lodged in the lungs, where hydrogen chloride may cause pulmonary edema.

Exposure to vinyl chloride can cause dizziness, light-headedness, nausea, dullness of visual and auditory responses, drowsiness and unconsciousness. Irritation of the skin and eyes can also occur. OSHA's short term exposure limit (STEL), based on a 15-minute sampling period, is 5 ppm. Vinyl chloride is considered a potential human carcinogen.

Exposure to formaldehyde gas can cause irritation to the mucous membranes of the respiratory tract and eyes, pulmonary edema, tightening of the chest, sensation of pressure in the head and palpitations of the heart. Hives have been reported following inhalation of gas. Death due to respiratory failure at higher

concentrations has been reported in humans. OSHA's STEL, is 2 ppm. Formaldehyde, considered a potential human carcinogen, may react with hydrogen chloride in warm, moist air to form bis-chloromethyl ether, a carcinogen.

Acrolein has a strongly disagreeable odor that produces intense irritation to the eye and mucous membranes of the respiratory tract. Skin burns and dermatitis may result from prolonged exposures. Although acetaldehyde does not have as pungent of an odor as acrolein, it does produce similar health effects. Additionally, at acute exposures, it can result in pulmonary edema.

Although organotin compounds are not CERCLA hazardous substances, certain ones (tributyl and dibutyl compounds) can cause acute burn burns to the skin, however they heal rapidly without scarring upon separation from the source. Others such as trialkyl and tetraalkyl compounds are toxic when ingested. They can cause damage to the central nervous system with symptoms of headaches, dizziness, photophobia, vomiting and urinary retention, some weakness and flaccid paralysis of the limbs in the most severe cases.

#### B. Threats to the Environment

Hazardous substances, particularly volatile organic compounds and asbestos, are present in the soils at the site. Additionally, it has been reported that drums may have been buried in the vicinity of Area A. The NJDEPE discovered magnetic anomalies in this area and it appears that asphalt has been haphazardly poured on the ground.

Although the location and quantities of materials in the building, for the most part, preclude a release to the Delaware River, a fire or explosion, and the resultant use of water for extinguishment, could result in a diluted release of some of these CERCLA designated Hazardous Substances into the Delaware River.

Other than discussed above, due to the industrial nature of the immediate area around VVS, there does not appear to be a significant threat to sensitive ecosystems or an exposure to hazardous substances by nearby animals and the food chain. The ground water in the general area is not known to be used for drinking water purposes.

#### IV. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

Delayed action to remove the hazardous substances present at the surface (drums, PVC resin, asbestos) of the site will increase the potential of a serious release occurring should a fire be initiated due to arson, vandalism or incidental trespassing. Although most of the site is fenced, there are access points available along the eastern fenceline, the waterfront, and most sides of the building.

Additionally, it has been documented that children enter the site. Spot fires have been noted in the buildings.

#### ENFORCEMENT

PA has not taken any enforcement actions to date. The Office of Regional Council will be notified of the site and notice letter(s) subsequently issued to all appropriate parties. Section II.C.1 discusses the enforcement activities undertaken by the NJDEPE to date.

#### VI. CONCLUSIONS

There has been a release of CERCLA designated Hazardous Substances at Vanguard Vinyl Siding, Inc. The threat of exposure through direct human contact with the abandoned containers is present. The site is accessible and has been used by children in the past.

The threat of a serious release resulting from a fire exists, due to vandalism. A fire would result in the degradation of potentially large amounts of the PVC resin, and the subsequent release of harmful substances. The release would affect a residential neighborhood which begins approximately 1,000 feet from the site.

#### VII. RECOMMENDATIONS

A CERCLA Removal Action is recommended for Vanguard Vinyl Siding, Inc. The action should address the containerized and spilled materials both inside and outside of the building; the asbestos material present in box containers; the boxed and spilled PVC resin; and the four electrical transformers potentially contaminated with PCBs.

The asbestos inside the courtyard, which may be the area where it was reportedly buried, should be either be addressed in a way as to minimize potential contact to trespassers entering the site or an attempt should be made to secure the building. It should be noted that a portion of the building's walls are made of transite, an asbestos containing material, which has been damaged in numerous locations.

With regards to the PVC material, the OSC has been informed by the Gloucester City EMC that there was a third party interested in obtaining all of the PVC resin for reformulation and finished product for resale.

ATTACHMENT Q



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING

NEW YORK, NEW YORK 10278

**ACTION MEMORANDUM**

**DATE:**

SEP 28 1992

**SUBJECT:** Request for a Removal Action at the Vanguard Vinyl Siding Site, Gloucester City, Camden County, New Jersey

**FROM:** Thomas Budroe, On-Scene Coordinator  
Removal Action Branch - Technical Support Section

**TO:** Constantine Sidamon-Eristoff  
Regional Administrator

**THRU:** Kathleen C. Callahan, Director  
Emergency and Remedial Response Division

Site ID# 9E

**I. PURPOSE**

This Action Memorandum requests and documents approval of the proposed removal action described herein for the Vanguard Vinyl Siding (VVS) Site, an abandoned vinyl siding manufacturing facility located at the foot of Water and Charles Streets, Gloucester City, New Jersey. The funding requested in this memorandum is necessary to remove and dispose of the hazardous wastes present at the site. The proposed removal action is anticipated to cost \$800,000, of which \$590,000 is from the regional removal allowance.

**II. SITE CONDITIONS AND BACKGROUND**

The Comprehensive Environmental Response, Compensation, and Liability Information System ID number for this time critical removal action is NJD982530073.

**A. Site Description**

**1. Removal site evaluation**

From 1950 through the 1960's the Ruberoid Corporation produced asbestos piping and asbestos shingles at this location. From 1981 to 1983, VVS operated and produced plastic siding for homes and other buildings. Many of the raw materials, including



polyvinyl chloride (PVC) resin, stabilizers, plasticizers and pigments, remain at the facility. Operations at the site in support of process operations included: a machine shop, die shop, electrical shop, millwright shop, a welding shop and a quality control laboratory.

On March 6, 1985, samples were collected by the owner's consultant as part of an initial site evaluation. Soil samples collected from Area A indicated the presence of petroleum hydrocarbons (9,080 parts per million (ppm)), 1,2-dichloroethane (1.08 ppm) and tetrachloroethane (0.70 ppm and di-n-octyl phthalate (11.5 ppm). Samples collected from Area B indicated elevated levels of petroleum hydrocarbons (15,800 ppm), trans-1,2-dichloroethylene (2.70 ppm) and trans-1,3-dichloropropylene (2.01 ppm). Samples collected from Area C indicated PVC resins, pigments and low levels of volatile organics and lead (see Attachment A).

According to the inventory of drums taken by the owner's consultant there are approximately 50 to 70 varying size containers inside and outside the buildings containing oils, pigments, organotin stabilizers, asbestos, PVC resin and some unknowns and 60 to 70 boxes of powders within the buildings. The floors of some of the rooms are covered with pigment, asbestos or PVC powder.

Drum samples collected by the Technical Assistance Team (TAT) on April 16, 1992, detected the presence of elevated levels of tetrachloroethylene, toluene and xylene. PVC resin was confirmed to be present in large volumes. In addition soil samples were taken which contained asbestos in concentrations of 2 to 3%.

## **2. Physical location**

The VVS Site is located at the foot of Charles and Water Streets in Gloucester City, Camden County, New Jersey. The site occupies approximately 2.06 acres, listed as Block 110, Lot 3B, in an industrial section of the city. The site is bounded by Water Street to the east, a vacant facility owned by GAF to the south, the Delaware River to the west and Koch Fuel Terminal to the north (see Figure 1). The nearest residential area is located less than 1,000 feet from the site. A large apartment complex (Gloucester Town), housing an estimated 100-200 senior citizens, is located approximately 2,000 feet northeast of the facility and several schools, parks and playgrounds are less than 0.5 miles from the site.

## **3. Site characteristics**

Historical site activities in the 1950s and 1960s, while under ownership by the Ruberoid Corporation (merged with GAF in 1967), included the production of asbestos piping and asbestos shingle. VVS operated at the site from 1981 through 1983. During its operations, VVS produced plastic siding for homes and other buildings. It is reported that the raw materials, including PVC

resin, stabilizers, plasticizers and pigments were delivered by truck or rail car. The resin was stored in silos and mixed with the stabilizers and pigments. After blending, the mixture was extruded in one of six process operations.

The VVS Site consists of two buildings, Manufacturing Building Numbers 3 and 10, that have been interconnected by smaller structures. Area A was a loading and shipping area located on the north side of Building 3. Raw materials and finished products were received and shipped from this area. Three silos used for storing vinyl pellets are located between the loading area and the manufacturing building. Sampling results from 1985 verified that a spill occurred in Area B. The release was from a drum storage rack located outside Manufacturing Building 3. Area C is located inside the plant and consists of an area of exposed ground surrounded by concrete flooring (see Attachment A).

It should be noted that a portion of the building's walls are made of transite, an asbestos containing material, which has been damaged in numerous locations.

From recent analysis, the presence of asbestos has been confirmed in several locations. Records reveal that asbestos products were both manufactured and used in these buildings in the past. Therefore, there is a strong possibility that the heavy coating of material covering the floors and contents of the buildings contains high concentrations of asbestos.

**4. Release or threatened release into the environment of a hazardous substance, or pollutant or contaminant**

Analytical results collected by the owner's consultant on March 6, 1985 indicated the presence of petroleum hydrocarbons (9,080 ppm), 1,2-dichloroethane (1.08 ppm), tetrachloroethane (0.70 ppm), and di-n-octyl phthalate (11.5 ppm) in soil samples collected from Area A. Area B indicated elevated levels of petroleum hydrocarbons (15,800 ppm), trans-1,2-dichloroethylene (2.70 ppm) and trans-1,3-dichloropropylene (2.01 ppm). Samples collected from Area C indicated PVC resins, pigments and low levels of volatile organics and lead.

According to an inventory of drums developed by the same consultant, and confirmed by the Technical Support Section (TSS) of the Removal Action Branch on subsequent site visits, there are approximately 50 to 70 containers of varying sizes within and outside of the buildings containing oils, pigments, organotin stabilizers, asbestos, PVC resins and some unknowns; 60 to 70 boxes (65 cubic feet each) of powders that may be PVC resin; and 35 bags of an unknown powder contained within the buildings at the VVS Site. The floors of some of the rooms are covered in either pigment, asbestos or PVC powder. There are also 30 to 50 empty containers, and large amounts of debris and finished PVC products scattered throughout the buildings.

Open and broken containers, in addition to stains on the walls and floors of the laboratory and an adjacent office, are evidence that a discharge of unknown materials has occurred. Small quantity containers are strewn throughout the building.

At least one drum is labelled diethylhexyl phthalate, a listed hazardous waste contained in the 40 CFR part 261 Section 33.

Laboratory analysis from samples collected by the TSS on April 16, 1992, detected elevated levels of tetrachloroethylene, toluene and xylene in some of the drums present on-site. Additionally, the presence of PVC resin and asbestos related material (chrysotile) at 2 to 3% was confirmed in several of the samples.

All of the materials listed above, except for the petroleum hydrocarbons, PVC resin and organotin compounds, are Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) designated Hazardous Substances, as listed in 40 CFR Table 302.4. Some organotin compounds are pollutants or contaminants, as described by Section 101(33) of CERCLA.

Two of the samples (VA-1, VA-2) sent for laboratory analysis were collected from the courtyards at the center of the building. Based on the reports of buried asbestos material and the physical appearance of this material, these samples were sent to a laboratory for asbestos analysis by the Polarized Light Microscopy method. The samples were found to contain 2 to 3% chrysotile asbestos.

The mechanism for past releases at the VVS Site appears to have been spills, poor housekeeping practices and illegal disposal practices. It is reported that there are buried drums in the vicinity of Area A and that asbestos is also buried somewhere on the property. The mechanism for future releases to the air and soil include deterioration of the containers, and improper disturbance of the containers and asbestos by trespassers (trespassing has been documented).

A fire in the area where the PVC resin is present could result in a release of hydrochloric acid and vinyl chloride vapors to the nearby residential community. According to the Gloucester City Emergency Management Coordinator, a release of smoke was simulated using Computer-Aided Management of Emergency Operations (CAMEO) and the results indicated that, based on the prevailing winds, the plume would spread over the senior citizens apartment complex and the remainder of Gloucester City.

#### **5. National Priorities List (NPL) status**

This site has not been designated or proposed for designation as an NPL site.

#### **6. Maps, pictures and other graphic representations**

See Attachment A.

## **B. Other Actions to Date**

### **1. Previous actions**

The only actions undertaken by the Potentially Responsible Party (PRPs) was the sampling of Areas A, B and C in 1984 (see Figure 2, Attachment A).

A pre-sampling assessment conducted by the New Jersey Department of Environmental Protection and Energy (NJDEPE), on February 20, 1992, indicated the presence of approximately 30 containers of varying sizes and conditions. Labels indicated the drums contained ethylene glycol, oils, solvents, asbestos, 2-diethylhexyl phthalate, acrylic resin and titanium pigment. In addition, several unlabeled drums and shattered laboratory reagents were found throughout the lab area.

The NJDEPE submitted the VVS Site to the Environmental Protection Agency (EPA) for a CERCLA removal action on March 11, 1992. In response to the continued threat posed by the site, the NJDEPE requested that EPA stabilize the site and characterize, overpack and dispose of all chemical and asbestos related material to safeguard the health and welfare of the local population. EPA responded to this request with a removal site evaluation and sampling to characterize the site.

### **2. Current actions**

Other than actions described herein, no mitigative action is presently planned or underway by EPA, NJDEPE or the PRP.

## **C. State and Local Authorities' Roles**

### **1. State and local actions to date**

VVS did not respond to Notices of Violation issued by NJDEPE on November 5, 1986 and August 8, 1991. The current mortgage holding company, ITT Diversified Credit Corporation, refuses property foreclosure, since it would trigger an Environmental Cleanup Responsibility Act (ECRA) response. Since the mortgage is uncollectible, ITT Diversified Credit Corporation has distanced itself from any cleanup responsibilities.

### **2. Potential for continued state/local response**

State and local agencies could not undertake removal of the contaminants in a timely manner. However, NJDEPE's ECRA Program will be addressing any residual contamination not addressed by this removal action.

### **III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES**

#### **A. Statutory and Regulatory Authorities**

The following criteria from Section 300.415(b)(2) of the National Contingency Plan are directly applicable to the VVS Site:

- (i) actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;
- (ii) actual or potential contamination of drinking water supplies or sensitive ecosystems;
- (iii) hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release;
- (iv) high levels of hazardous substances or pollutants or contaminants in the soils largely at or near the surface may migrate;
- (vi) threat of fire or explosion; and
- (vii) the lack of availability of other appropriate Federal or state response mechanisms to respond to the release.

#### **B. Threats to Public Health and Welfare**

The threat of exposure through direct human contact with containers of contaminated oils, plasticizers, solvents, pigments, organotin stabilizers, and asbestos is present at the site. The property and the buildings have been accessed by trespassers as evidenced by fires, graffiti and skateboarding ramps. The Gloucester City Fire Department has documented fires that have occurred over the years. These locations were noted during the recent site visits. There is a large amount of paper debris scattered throughout the building. In addition, the majority of the building structure is comprised of wood. A fire would result in the degradation of the PVC resin, of which 20 to 30 tons are estimated to be present within the buildings, releasing hazardous substances into the environment.

The release would affect a residential neighborhood located 1,000 feet from the site. In addition, there are numerous schools, churches and a senior citizens apartment complex located within a half-mile of the site. The site is unsecured, allowing unauthorized access through holes in the fence and windows. There are also numerous opened doors, broken windows and holes in the walls of the building.

PVC resin is neither a CERCLA designated Hazardous Substance nor a pollutant or contaminant. However, when heated, PVC produces a white smoke and acrid fumes which can be corrosive. Scientific study indicates the amount of hydrogen chloride gas evolution

increases almost exponentially, relative to fire intensity. The onset of thermal degradation of PVC occurs at within the range of 500 to 889 degrees F. A typical fire burns at 1,600 degrees F.

The final combustion products of PVC are carbon, carbon dioxide, carbon monoxide, water and hydrogen chloride and an irritant acid gas that forms hydrochloric acid when dissolved in water. Possible intermediate compounds formed include formaldehyde, acetaldehyde and acrolein. In elevated temperatures, polyvinyl polymers thermally decompose to their respective monomers. A monomer of PVC is vinyl chloride.

When inhaled, hydrogen chloride gas may cause damage to the mucous membranes. Furthermore, carbon particulates in the smoke absorb hydrogen chloride. When the smoke is inhaled, the particulates bypass the upper respiratory system and becomes lodged in the lungs, where hydrogen chloride may cause pulmonary edema.

Exposure to vinyl chloride can cause dizziness, light-headedness, nausea, dullness of visual and auditory responses, drowsiness and unconsciousness. Skin and eye irritation is also likely. The American Conference of Governmental Industrial Hygienists (ACGIH) Short Term Exposure Limit (STEL), based on a 15-minute period is 5 ppm. Vinyl chloride is considered a potential human carcinogen.

Exposure to formaldehyde gas can cause irritation to the mucous membranes of the respiratory tract and eyes, pulmonary edema, tightening of the chest, sensation of pressure in the head and palpitations of the heart. Death by respiratory failure may occur during exposure to high concentrations. ACGIH'S STEL for formaldehyde gas is 2 ppm. Formaldehyde may react with hydrogen chloride in warm, moist air to form bis-chloromethyl ether, a carcinogen.

Acrolein produces intense irritation to the eyes and mucus membranes of the respiratory tract and can result in pulmonary edema with acute exposure. Skin burns and dermatitis may result from long exposure.

Although organotin compounds are not specifically designated CERCLA hazardous substances under 40 CFR 302.4, tributyl and dibutyl tin compounds can cause acute burns to the skin. Trialkyl and tetraalkyl tin compounds are toxic when ingested. They cause damage to the central nervous system and flaccid paralysis of the limbs in severe cases. Thus, these compounds are considered to be pollutants or contaminants under CERCLA.

Drums which may be buried on-site that do not pose a contact hazard and asbestos material either outside the building or asbestos which does not pose a hazard to cleanup operations will be addressed in a separate action.

### **C. Threats to the Environment**

Analytical results have identified volatile organic compounds and asbestos present at the site. At least one transformer is labelled to contain polychlorinated biphenols (PCBs). Additionally, the NJDEPE reports that drums may have been buried in the vicinity of Area A (see Figure 2, Attachment A).

The location and quantity of materials in the buildings does not preclude a direct release into the Delaware River. A fire or explosion could cause a diluted release of CERCLA Hazardous Substances, by runoff from extinguishment activities, into the Delaware River located at the sites perimeter.

Hazardous substances, particularly volatile organic compounds and asbestos, are present in the soils at the site. Additionally, it has been reported that drums may have been buried in the vicinity of Area A and that asphalt has been haphazardly poured on the ground. The NJDEPE discovered magnetic anomalies in this area.

Due to the industrial nature of the immediate area surrounding the site, there does not appear to be a significant threat to sensitive ecosystems or an exposure to hazardous substances by animals or the food chain. The ground water is not used for drinking water purposes.

### **IV. ENDANGERMENT DETERMINATION**

Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, welfare or the environment.

### **V. PROPOSED ACTIONS AND ESTIMATED COSTS**

#### **A. Proposed Actions**

##### **1. Proposed action description**

The objective of this project is to eliminate the threat of direct contact currently posed at the VVS Site. The proposed mitigative measures include the removal of CERCLA Hazardous Substances and PVC material inside and outside the facility. Disposal of all wastestreams will comply with EPA Resource Conservation and Recovery Act (RCRA) policies.

Asbestos material inside the structure posing a significant hazard to operations personnel will be containerized and/or otherwise stabilized and stored. In addition to protecting the health of workers, stabilization operations will stop further spreading of the asbestos to locations outside the building and avoid equipment contamination. This clean up action will not

address the disposal of the asbestos since determining the amount and locations of this material would require a significant allocation of funds and time. Moreover, the asbestos cleanup may be conducted by possible future PRP involvement.

Historical unconfirmed reports indicate buried drums of unknown substances may be located on-site. This action will seek to determine if buried drums exist on-site. Because the presence and quantity of buried drums is uncertain and again, the possibility of future PRP involvement, excavation and disposal of buried drums will not be addressed by this action.

This action will address materials constituting an immediate threat as defined by CERCLA. However, given the threat of fire/explosion by vandals entering the site, the existing fence will remain as a means of post-removal site control. The site will be referred to the NJDEPE for possible remediation work if necessary.

## **2. Contribution to remedial performance**

The VVS Site has not been designated as a NPL site. There is no long term remedial plan at this time. Responsibility for this site will be referred to NJDEPE upon completion of this removal action. Actions proposed at this site will address the threats this site poses as described in Section III.

It is probable that the site will then be evaluated for applicability under NJDEPE's ECRA Program. The proposed actions are consistent with any future remedial actions.

## **3. Descriptions of alternative technologies**

Resource recovery and recycling options will be explored and utilized to the greatest extent possible.

## **4. Engineering Evaluation/Cost Analysis (EE/CA)**

Since the proposed removal action is time-critical the section is not applicable.

## **5. Applicable or relevant and appropriate requirements (ARARs)**

ARARs within the scope of the action described herein, will be attained to the extent practicable. All CERCLA, RCRA, and Toxic Substances Control Act regulatory concerns as they pertain to the removal, transportation and disposal of on-site contaminants will be addressed.

## **6. Project schedule**

The EPA will require a minimum of two (2) months to conduct the required activities described in this memorandum. The removal action can be initiated within one (1) month upon approval of this memorandum. Refer to Attachment B, "Project Schedule and Estimated Costs" for detailed breakdown of the project.



**B. ESTIMATED COSTS**

**Extramural Costs:**

**Regional Allowance Costs:**

Extramural Cleanup Contractor  
with Contingency.....\$590,000

**Other Extramural Costs Not Funded From the Regional Allowance:**

Total TAT.....\$ 29,430  
Subtotal, Extramural Costs.....\$619,430  
15% Extramural Costs.....\$ 92,914  
**TOTAL EXTRAMURAL COSTS AND  
CONTINGENCIES.....\$712,344**

**Intramural Costs:**

Intramural Direct Costs.....\$ 13,200  
(HQ, Region, and ERT)  
Intramural Indirect Costs.....\$ 40,000  
**PROJECT CEILING.....\$765,544**  
**ROUNDED.....\$766,000**

**VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR  
NOT TAKEN**

Delayed action will increase the health risks to anyone coming in contact with the site. Deleterious effects upon the indigenous species population may be compounded.

The threat of a serious release from a fire exists, due to vandalism and documented evidence of previous incendiary fires. A fire would result in the degradation of a large amount of PVC resin and the subsequent release of harmful substances. The release would affect a residential neighborhood located 1,000 feet from the site.

Run-off from fire fighting efforts may also introduce pollutants and contaminants into the Delaware River.

**VII. OUTSTANDING POLICY ISSUES**

None.

**VIII. ENFORCEMENT**

VVS did not respond to Notices of Violation issued by NJDEPE on November 5, 1986 and August 8, 1991. ITT Diversified Credit Corporation, the mortgage holding company, refuses to foreclose on the property as it would trigger an ECRA. According to the NJDEPE, ITT views the mortgage as uncollectible and has thus distanced itself from all cleanup responsibilities.

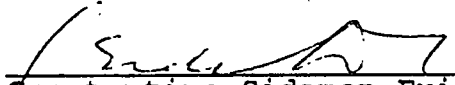
Federal enforcement action has been initiated with a search for other PRPs including informally contacting the GAF corporation. As information becomes available, formal enforcement activities will commence.

#### IX. RECOMMENDATION

This decision document represents the selected removal action for the VVS Site in Gloucester City, Camden County, New Jersey, developed in accordance with CERCLA as amended, and not inconsistent with the National Contingency Plan (NCP).

Conditions at the site meet criteria for a removal under the NCP Section 300.415(b)(2) and I recommend your approval of the proposed removal action. The total project ceiling if approved will be \$800,000, of which \$590,000 is coming from the Regional removal allowance. Sufficient funding is available in our current advice of allowance to finance this project.

Please indicate your approval and authorization of funding for the VVS Site, as per current Delegation of Authority, by signing below.

Approval:   
Constantine Sidamon-Eristoff  
Regional Administrator

Date: 9/30/92

Disapproval: \_\_\_\_\_  
Constantine Sidamon-Eristoff  
Regional Administrator

Date: \_\_\_\_\_

cc: (after approval is obtained)

W. Muszynski, DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-ADREPP  
J. Frisco, 2ERR-DDNJP  
G. Zachos, ERR-RAB  
J. Witkowski, ERR-RAB-TSS  
M. Pane, ERR-RAB-A  
J. Marshall, 2EPD  
J. McVeigh, 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
P. Cutts, OPM-FAM  
C. Moyik, ERRD-PS  
M. Mjoness, OS-210  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
C. Kelley, TATL

ATTACHMENT A  
MAPS AND OTHER GRAPHICS

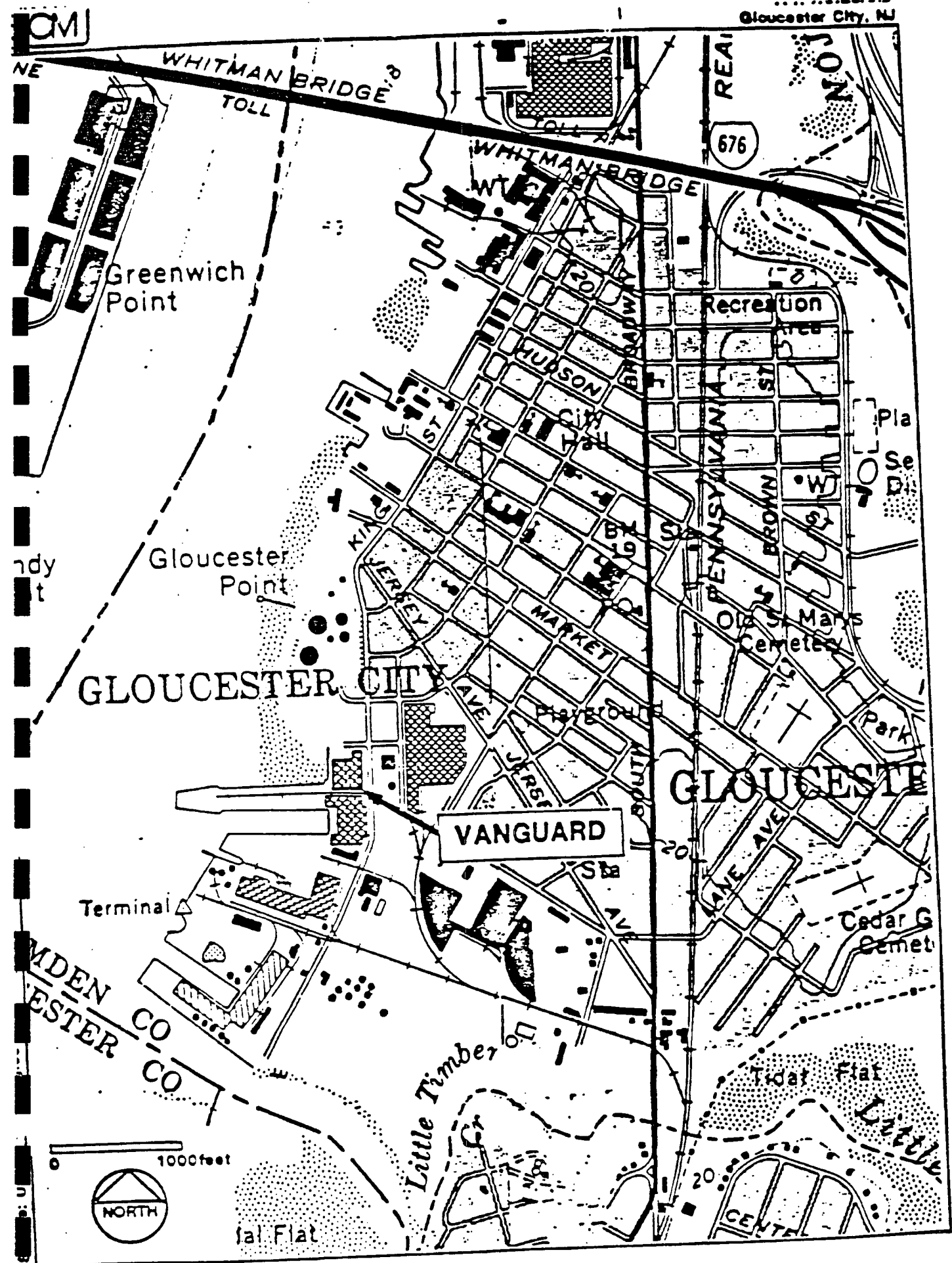


FIGURE 1 USGS Location Map

BCM

VANGUARD  
Gloucester City, NJ

**SAMPLING PLAN-KEY**

- |   |   |
|---|---|
| A. Truck loading/unloading area<br>misc. drum storage | C. Exposed subsurface in building floor |
| B. Drum storage rack spill area                       | D. Background                           |

6TH STREET

Fence

(A)

Vinyl Pellet  
Storage  
Silos

Drum  
Storage Rack

(B)

Manufacturing  
Building  
3

Manufacturing  
Building  
10

(C)

(D)

WATER STREET

Fence

Property Line

Quality Control  
Laboratory

Property Line

0 50 feet



FIGURE 2

Scaled Site Map

ATTACHMENT B  
PROJECT SCHEDULE AND ESTIMATED COSTS

DETAILED COST ESTIMATE  
VANGUARD VINYL SIDING SITE  
GLOUCESTER CITY, CAMDEN COUNTY, NEW JERSEY

The costs detailed below are for the mitigative measures detailed in this memorandum. See Section V,B. for a summary of funds authorized under the previous action memorandums and funds requested in the current action memorandum.

I. EXTRAMURAL COSTS

A. ERCS Contractor Costs

Removal activities are expected to require approximately two to three months of on-site activity and will consist of the following: mobilization; sampling, asbestos abatement, analysis and disposal of containerized hazardous materials; decontamination of buildings and vessels; labpacking of all laboratory containers; and demobilization. The estimated schedule and associated costs are subject to fluctuation depending upon transportation and disposal scheduling, and the degree to which recycling can be utilized as a method of disposal.

1. Mobilization

(1)	Response Manager	\$51.54/hr.x 50 hr.	\$ 2,577.00
(1)	Field Clerk	\$31.50/hr.x 40 hr.	\$ 1,260.00
	Overtime	\$47.25/hr.x 10 hr.	\$ 472.50
(1)	Foreman	\$34.91/hr.x 40 hr.	\$ 1,396.40
	Overtime	\$52.36/hr.x 10 hr.	\$ 523.60
(2)	Laborer	\$24.15/hr.x 40 hr.	\$ 1,932.00
	Overtime	\$36.22/hr.x 10 hr.	\$ 724.40
(1)	Chemist	\$54.60/hr.x 20 hr.	\$ 1,092.00
	Overtime	\$81.90/hr.x 4 hr.	\$ 327.60
(1)	Sample Technician	\$28.35/hr.x 10 hr.	\$ 283.50
	Overtime	\$42.52/hr.x 4 hr.	\$ 170.08
(7)	Subsistence Cost	\$96/day x 7 day	\$ 4,704.00
(1)	Office Trailer	\$500/mo. x 3 mo.	\$ 1,500.00
(1)	Decon Trailer	\$1,100/mo. x 2 mo.	\$ 2,200.00
(2)	Porta-John	\$100/mo. x 3 mo.	\$ 600.00
(1)	Steam Jenny	\$750/mo. x 2 mo.	\$ 1,500.00
(1)	Double Di. Pump	\$600/mo. x 2 mo.	\$ 1,200.00
(1)	Portable Computer	\$350/mo. x 2 mo.	\$ 700.00
(1)	Pickup Truck	\$1,000/mo. x 2 mo.	\$ 2,000.00
(2)	Passenger Car	\$550/mo. x 2 mo.	\$ 2,200.00
(1)	Bobcat	\$2000/mo.x 2 mo.	\$ 4,000.00
(1)	HEPA Vacuum	\$1000/mo.x 2 mo.	\$ 2,000.00
(1)	Watercooler	\$100/mo. x 3 mo.	\$ 300.00

Other:

Electric/Phone Service	\$ 2,000.00
Office Support (fax, copier, etc.)	\$ 1,000.00
Miscellaneous (air monitoring equip., portable radios, expendables, etc.)	\$ 10,000.00

Subtotal	\$ 46,663.08
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## 2. Mitigative Actions (as described in Section V,5.)

(1)	Response Manager	\$51.54/hr.x 200 hr.	\$ 10,308.00
(1)	Field Clerk	\$31.50/hr.x 200 hr.	\$ 6,300.00
	Overtime	\$47.25/hr.x 40 hr.	\$ 1,890.00
(1)	Foreman	\$34.91/hr.x 200 hr.	\$ 6,982.20
	Overtime	\$52.36/hr.x 40 hr.	\$ 2,094.40
(3)	Laborer	\$24.15/hr.x 200 hr.	\$ 14,490.00
	Overtime	\$36.22/hr.x 40 hr.	\$ 4,346.40
(1)	Chemist	\$54.60/hr.x 100 hr.	\$ 5,460.00
	Overtime	\$81.90/hr.x 20 hr.	\$ 1,638.00
(1)	Sample Technician	\$28.35/hr.x 100 hr.	\$ 2,835.00
	Overtime	\$42.52/hr.x 20 hr.	\$ 850.40
(8)	Subsistence Cost	\$96/day x day	\$ 23,040.00

### Other :

Subcontractor, asbestos abatement	\$200,000.00
ERCs G&A (15%)	\$ 30,000.00
Analytical Services (estimated)	\$ 40,000.00
ERCs G&A (15%)	\$ 60,000.00
Transportation and Disposal (estimated)	\$ 85,000.00
ERCs G&A (15%)	\$ 12,750.00

Subtotal	\$453,984.40
----------	--------------

## 3. Demobilization

(1)	Response Manager	\$51.54/hr.x 50 hr.	\$ 2,577.00
(1)	Field Clerk	\$31.50/hr.x 40 hr.	\$ 1,260.00
	Overtime	\$47.25/hr.x 10 hr.	\$ 472.50
(1)	Foreman	\$34.91/hr.x 40 hr.	\$ 1,396.40
	Overtime	\$52.36/hr.x 10 hr.	\$ 523.60
(2)	Laborer	\$24.15/hr.x 40 hr.	\$ 1,932.00
	Overtime	\$36.22/hr.x 10 hr.	\$ 724.40
(5)	Subsistence Cost	\$96/day x 7 day	\$ 3,360.00

Subtotal	\$ 12,245.90
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## 4. Total Mitigation Costs

Direct Mitigation Costs	\$512,893.38
Contingency 15%	\$ 76,934.00
Total Mitigation Costs	\$589,827.34
BAY	\$590,000.00

## B. Region II TAT Costs

400 field hrs. x \$65/hr.	\$ 26,000.00
70 office hrs. x \$49/hr.	\$ 3,430.00
Total TAT Costs	\$ 29,430.00
Total REAC Costs	\$ 30,000.00
Total Extramural Direct Costs	\$649,430.00
Contingency 15%	\$ 97,414.50
TOTAL EXTRAMURAL COSTS	\$746,844.50

ATTACHMENT 15



II. INTRAMURAL COSTS

A. Intramural Direct Costs

[800 (Region) + .10 x 800 (HQ)  
x \$30/hr.]

\$ 13,200.00

B. Intramural Indirect Costs

[800 x \$100/hr.]

\$ 40,000.00

TOTAL INTRAMURAL COSTS

\$ 53,200.00

TOTAL ESTIMATED PROJECT COSTS

\$800,044.50

ROUNDED ESTIMATED PROJECT COSTS

\$800,000.00

ATTACHMENT C  
ENFORCEMENT ADDENDUM

**ENFORCEMENT SENSITIVE**

**ENFORCEMENT ADDENDUM**

**Vanguard Vinyl Siding Site**

**Gloucester City, Camden County, New Jersey**

**A. PRP Search**

Enforcement efforts conducted by NJDEPE to date have been unsuccessful in prompting Vanguard to address the removal of hazardous materials remaining on-site. Vanguard Vinyl Siding is not a viable PRP because of bankruptcy. Furthermore, Vanguard's mortgage holding company (ITT) refuses to foreclose on the property as it views the mortgage as uncollectible and would trigger the NJDEPE's ECRA process.

Prior to Vanguard's operations, the Ruberoid Corporation had produced asbestos building materials at the site during the 1950s and 1960s. In 1967, Ruberoid merged with the GAF Corporation and continued to operate at the site until Vanguard's purchase of the property in 1981. Evidence of the production of asbestos products can still be seen throughout the site buildings.

**B. Notification of PRPs of Potential Liability and of the Required Removal Action**

NJDEPE has issued Notices of Violation to Vanguard in 1986 and again in 1991. Both Notices were met without response.

It is the intention of EPA to issue 104(e) Notice Letters to all PRPs known at this time including Vanguard, ITT and GAF/Ruberoid.

**C. Decision Whether to Issue an Order**

The agency's decision of whether to issue an order to the PRPs hinges upon the response or lack of response to the Notice Letters. If Orders are issued, it is likely that those issued to Vanguard and ITT would address the abandoned hazardous materials, and GAF's involvement would most likely be limited to asbestos bearing materials.

**D. Negotiation and Order Issuance Strategy**

Given the urgency of the required actions and the history of NJDEPE's enforcement efforts, it is the intention of the agency to initiate the proposed response actions prior to issuing Notice Letter to the PRPs. In the event that a favorable response is received from any of the PRPs during performance of the removal action, a decision will be made to either complete the required actions or stabilize the hazardous materials pending the outcome of PRP negotiations. At the present time, it is the consensus of PSB, ORC and RAB that GAF's removal of asbestos materials would be the most likely possibility of PRP involvement.

ATTACHMENT R

U.S. ENVIRONMENTAL PROTECTION AGENCY

INITIAL POLLUTION REPORT

I. Heading

Date: December 15, 1992  
From: *W. Sud Tawadros* Gad Tawadros, OSC, U.S. EPA Region II, Removal  
Action Branch  
To: C. Sidamon-Eristoff, EPA-RA  
W. Muszynski, EPA DRA  
K. Callahan, EPA  
R. Salkie, EPA  
G. Zachos, EPA  
M. Pane, EPA  
J. Marshall, EPA  
D. Mellott, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
✓D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City-OEM  
TAT  
Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP: POLREP #1 -FIRST AND INITIAL

II. Background

Site No.	9E
Delivery Order No.	0027-02-019
Response Authority	CERCLA
ERNS No.	N/A
NPL Status	Non-NPL
State Notification	NJDEPE Notified
Action Memorandum Status	Approved September 28, 1992
Start Date	December 10, 1992
Demobilization Date:	N/A
Completion Date:	N/A

III. Site Information

A. Incident Category

CERCLA incident category: Inactive Production Facility

## B. Site Description

### 1. Site Background

The Vanguard Vinyl Siding Site (VVS) is located in Gloucester City, Camden County, in an industrial section of southwest New Jersey. The site consists of two connected manufacturing buildings (numbers 3 and 10), on approximately 2.06 acres of property. The remaining buildings on site are currently involved in an ECRA clean up being addressed by GAF. Historically, the site was owned by Ruberoid Corporation who manufactured asbestos piping and shingles. In 1967, Ruberoid merged with GAF. During 1981 until 1983, VVS operated at the site producing plastic siding for homes and other buildings. The raw material (PVC resin, stabilizers, plasticizers and pigments were delivered by truck or rail car to the facility and the resin was stored in silos and mixed with stabilizers or pigments, then extruded in one of six process operations. Recent soil analysis confirms the presence of asbestos containing material and due to the history of the site, heavy coatings of dust is suspected to contain asbestos.

### 2. Description of Threat

On March 11, 1992, the New Jersey Department of Environmental Protection and Energy (NJDEPE) requested EPA-Region II, Removal Action Branch perform a CERCLA removal action at the VVS site. A preliminary assessment and removal evaluation were conducted in April 1992. According to the owners consultant, an inventory of the following materials exist: 50-70 varying sized containers containing oils, pigments, organotin stabilizers, asbestos, PVC resin and some unknowns and 60 to 70 boxes of powders. Threat of fire in the area of the PVC resin is present which would result in release of hydrochloric acid and vinyl chloride vapors to the nearby residential community.

## C. Preliminary Assessment Results

During this assessment two buildings were investigated. This assessment revealed approximately 50-70 containers of varying size within and outside of the building, containing oils, pigments, organotin stabilizers, asbestos, PVC resins and some unknowns. Additionally, 60-70 boxes of powders (possibly PVC resins) and 35 bags of unknown powder are contained within the buildings at the VVS site.

Samples were collected for hazard categorization which supported the material being PVC resin. Soil samples were analyzed for asbestos and 2-3% chrysotile asbestos was confirmed. Additionally, drum and powder samples revealed elevated levels of tetrachloroethylene, toluene and xylene.

Additional information was gained from the local Emergency Medical Coordinator : 4 transformers, 3 silos, and possible buried drums and asbestos.

#### IV. Response Information

##### A. Planned Removal Actions

The VVS removal action will consist of removal of the CERCLA Hazardous Substances and PVC material inside and outside the facility. The asbestos material inside the structure posing significant hazard to ERCS will be containerized/stabilized and stored on site.

##### B. Situation

###### 1. Current Situation

The Action Memorandum was approved on September 28, 1992 to address the drums and raw materials at the site.

###### 2. Removal Actions to Date

On December 10, ERCS and EPA conducted a site visit and discuss removal activities. EPA also met with the local authorities to notify them of the Removal Action.

EPA, TAT and ERCS mobilized to the VVS site on December 14, 1992 to begin removal activities. To date, part of the fencing around the site has been secured and padlocks have been placed on external doors to secure the building. A storage trailer and Kubota Tractor was mobilized on December 14, in addition to a mobile trailer temporarily utilized as a command post. Site security was began December 14 at the COB.

Crushed stones were delivered and spread around the storage trailer after it was stabilized to prevent migration of possible soil contaminants.

ERCS has submitted a draft Health and Safety Plan, Sampling Plan and Work Plan. All of the above need revisions before site work can commence.

On December 16, 3 asbestos surveyors visited the site to bid on the survey of the suspect asbestos; sampling and analysis.

3. Enforcement

VVS didn't respond to Notices of Violation issued by NJDEPE on November 5, 1986 and August 8, 1991. The mortgage holding company, ITT Diversified Credit Corporation refuses to foreclose on the property as it would trigger an ECRA. According to the NJDEPE, ITT views the mortgage as uncollectible and has distanced itself from all cleanup responsibilities. Federal enforcement actions have been initiated with a informal PRP search. As information becomes available, formal enforcement activities will commence.

C. Next Steps

1. ERCS will continue site preparation. Bids for the Asbestos survey should be received by the end of the week so next week the survey can be completed. The asbestos survey should be completed by December 29, 1992.
2. ERCS will revise the Safety, Sampling and Work plans until they are acceptable. Once the asbestos survey is completed, an asbestos abatement sub contractor will be secured to remove the asbestos so the intended removal action can commence.
3. EPA/TAT will write the Community Relations Plan and the Administrative Record for placement in the local library.

V. Cost Information

Costs will be reported in the next Pollution Report.



RECEIVED

JAN 14 1993

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

I. Heading

Date: December 23, 1992

From: Gad W. Tawadros, OSC, Removal Action Branch

To: C. Sidamon-Eristoff, EPA-RA  
W. Muszynski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJ  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD  
J. McVeigh, 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellott, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
- L. Miller, NJDEPE  
K. Kloo, NJDEPE  
D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City-OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP: POLREP 2

II. Background

Site No.	9E
Delivery Order No.	0027-02-019
Response Authority	CERCLA
ERNS No.	N/A
NPL Status	Non-NPL
State Notification	NJDEPE Notified
Action Memorandum Status	Approved September 28, 1992
Start Date	December 10, 1992
Demobilization Date:	N/A
Completion Date:	N/A

III. Site Information

A. Incident Category

ATTACHMENT 18<sup>5</sup>

3. Enforcement

Federal enforcement actions have been initiated with a informal PRP search. As information becomes available, formal enforcement activities will commence.

C. Next Steps

1. ERCS will continue site preparation. Bids for the asbestos abatement will be secured after specifications for the scope of work are completed. Once the asbestos survey is completed, an asbestos abatement sub contractor will be secured to remove the asbestos so the intended removal action can commence.
2. ERCS will make amendments to the Safety Plan to finalize the site copy.
3. EPA/TAT will write the Community Relations Plan and the Administrative Record for placement in the local repository.

V. Cost Information

Cost To Date

Cleanup Contractor	\$24,300
TAT	4,000
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAGs	N/A
Intramural (HQ, Regions, ERT)	3,500
Letter Contracts	N/A
<hr/>	
TOTAL	\$ 31,800
Project Ceiling	\$ 800,000
Percent of Project Funds Remaining	96.0 %

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JAN 25 1993

U.S. ENVIRONMENTAL PROTECTION AGENCY

POLLUTION REPORT

I. Heading

Date: December 30, 1992

From: Gad W. Tawadros, OSC  
Removal Action Branch

To: C. Sidamon-Eristoff, EPA-RA  
W. Muszynski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD  
2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellott, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
↓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City-OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP: POLREP 3

II. Background

Site No.	9E
Delivery Order No.	0027-02-019
Response Authority	CERCLA
ERNS No.	N/A
NPL Status	Non-NPL
State Notification	NJDEPE Notified
Action Memorandum Status	Approved September 28, 1992
Start Date	December 10, 1992
Demobilization Date:	N/A
Completion Date:	N/A

ATTACHMENT 1

site.

ERCS submitted the Health and Safety plan, sampling plan and proposed work plan. All plans have been reviewed by EPA and TAT and approved by the OSC.

EPA/TAT reviewed the Health and Safety Plan and conducted air monitoring during site activities.

3. Enforcement

Federal enforcement actions have been initiated with a informal PRP search. As information becomes available, formal enforcement activities will commence. On December 30, 1992, GAF responded to the 104E letter requesting additional time to respond.

C. Next Steps

1. Bids for the asbestos abatement will be secured after specifications for the scope of work are completed. Once the asbestos survey is completed, an asbestos abatement sub contractor will be secured to remove the asbestos so the intended removal action can commence.
2. The Community Relations Plan and the Administrative Record is in progress.

V. Cost Information

	<u>Cost To Date</u>
Cleanup Contractor	\$33,200
TAT	5,700
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAGS	N/A
Intramural (HQ, Regions, ERT)	5,000
Letter Contracts	N/A
<hr/>	
TOTAL	\$ 43,900
Project Ceiling	\$ 800,000
Percent of Project Funds Remaining	94.5 %

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: January 7, 1993

From: Gad Tawadros, OSC, U.S.EPA, Region II  
Removal Action Branch

To: C. Sidamon-Eristoff, EPA-RA  
W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Four (4)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

On December 30, GAF contacted EPA to request additional time to respond to the 104E letter. On January 6, TAT conducted a thorough inventory of the material in the building. Information regarding potentially responsible parties were documented and will be forwarded to the EPA attorney assigned to the site.

### 3. Enforcement

Federal enforcement actions have been initiated with an informal PRP search. As information becomes available, formal enforcement activities will commence. On December 30, 1992, GAF responded to the 104E letter requesting additional time to respond.

### C. Next Steps

1. ERCS will sample the 4 transformers and investigate (and sample) the 12,000 gallon tank in the courtyard. Additionally, ERCS will sample the silos utilizing the highlift while it is available for the asbestos survey and walk through.
2. Bids for the asbestos abatement will be secured after specifications for the scope of work are completed. Once the asbestos survey is completed, an asbestos abatement sub contractor will be secured to remove the asbestos so the intended removal action can commence.
3. The Community Relations Plan and the Administrative Record are in progress.

## V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	
TAT	58,592
CLP Analytical Services	10,351
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	N/A
Letter Contracts	7,500
	N/A
<b>TOTAL</b>	<hr/>
	\$ 76,443
Project Ceiling	\$800,000
Percent of Project Funds Remaining	91

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

As before

##### 2. Removal Actions to Date

OSC, TAT and ERCS met with BCM to discuss the results of the survey and additional sampling necessary to confirm the presence or absence of asbestos in areas inaccessible during the initial survey. On January 5 and 6, BCM continued the survey utilizing a highlift rented through ERCS and an extension ladder. Forty seven additional bulk samples were taken to confirm the presence or absence of asbestos containing material (ACM) in various materials since a minimum of 3 samples/homogeneous area are required to determine if the material is considered ACM. Two additional air samples were run to confirm the high levels of asbestos reported in the TEM analysis since BCM suspected pump failure during the initial air sampling. The air samples will be analyzed by BCM to expedite the turn around time.

BCM utilized the high lift to samples in Building 10 and an extension ladder in building 3. ERCS supported BCM during the additional survey. The final report should be submitted on January 7, with the Scope of Work submitted on January 8.

RECEIVED

JAN 28 1993

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: January 14, 1993

From: Gad W. Tawadros, OSC  
Removal Action Branch

To: C. Sidamon-Eristoff, EPA-RA  
W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Five (5)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

ATTACHMENT 2



### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS awaiting for the sealed bids from asbestos abatement companies. The sealed envelopes will be opened on Friday January 15, 1993, at 2:00 PM on site. The successful bidder will begin mobilize and begin the asbestos removal on January 18, 1993.

##### 2. Removal Actions to Date

During this period all open drums as well as all open boxes inside and outside of the buildings, and the silos have been sampled for hazcatting. A total of about 95 samples were obtained.

TAT, ERCS, ECM and the OSC held a meeting to discuss operational aspects related to the asbestos abatement project and results from the last survey. According to the survey, building 10 has approximately 1050 LF of asbestos insulated pipe, of which 50% to 75% requires repair or removal, and 80% of building 3's 1875 LF of asbestos insulated pipe will also repair or removal. The abatement contractor will repair or remove the ACM, but will not cut the pipe. Additionally, the drums of hazardous materials

will be HEPA vacuumed, wet wiped, covered with plastic and left in place for subsequent handling by ERCS. The boxes of vinyl siding, PVC resin, and pigments will be packed for disposal as asbestos contaminated waste. The PVC resin and the pigments will then be analyzed for hazardous characteristics. If the materials show characteristics they will dispose of in a RCRA approved landfill; if not, the abatement contractor will do so in an asbestos approved landfill.

On Tuesday January 11, 1993, bidders for the asbestos abatement contract conducted a site walkthrough inspection. Prior to this they were briefed on project specifics. Additionally, the decontamination facilities were inspected by the bidders and found to be acceptable for their use.

### 3. Enforcement

Federal enforcement actions have been initiated with an informal PRP search. As information becomes available, formal enforcement activities will commence. GAF responded in writing to the 104E letter requesting additional time. Additional time was granted for the second time.

### C. Next Steps

1. Asbestos abatement will commence on January 18, 1993. so the intended removal action can be initiated.
2. The Community Relations Plan and the Administrative Record are in progress.

## V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	58,592
TAT	13,600
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	9,600
Letter Contracts	N/A
<b>TOTAL</b>	<b>\$ 81,792</b>
Project Ceiling	\$800,000
Percent of Project Funds Remaining	89%

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

RECEIVED

JAN 28 1993

## I. Heading

Date: January 21, 1993

From: Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Six (6)

## II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

ATTACHMENT 15

III. Site Information

A. Incident Category

CERCLA incident category: Inactive Production Facility

B. Site Description

1. Site Background

Refer to POLREP No. 1

2. Description of the Threat

Refer to POLREP No. 1

3. Preliminary Assessment Results

Refer to POLREP No. 1

IV. Response Information

A. Planned Removal Action

Refer to POLREP No. 1

B. Situation

1. Current Situation

ERCS' asbestos abatement subcontractor mobilized to the site and began asbestos mitigation in order for Guardian remove and dispose of all CERCLA Hazardous substances.

2. Removal Actions to Date

On Friday January 15, 1993, ERCS received the sealed bids for the asbestos abatement subcontract. ERCS retained MARCOR as the subcontractor for the asbestos abatement. MARCOR was the lowest bidder, thus awarded the contract. The OSC reviewed MARCOR's statement of qualifications and appears to be adequate and qualified to do the job.

On Monday January 18, 1993, MARCOR mobilized the HEPA vacuum and some other equipment on site in preparation for the upcoming removal activities.

A meeting was held with BCM to discuss removal activities and provide ERCS with a State Construction Permit Notes to initiate the abatement activities. Meanwhile BCM conducted the baseline air monitoring.

The New Jersey State Office of Asbestos Control and Licensing, Department of Labor met with the OSC, TAT, ERCS and MARCOR. During this meeting MARCOR stated that about 50% of his asbestos technicians have asbestos license of different state and their New Jersey license are either expired and/or waiting to be issued. MARCOR's project manager stated he can continue with only the NJ licensed personnel and this will double the time of clean-up activities. The State inspector stated that due to the fact that this is a Superfund site the OSC has the authority to waive this requirement. A decision was made by the OSC on the spot to waive this requirement in order to complete clean-up activities within the timeframe target.

Asbestos abatement started on Wednesday 20, 1993. The OSC appointed an area in building number 10 for temporary storage of the ACM. This area was chosen due its accessibility for loading and unloading, security and weatherproof.

EPA/TAT continued hazcatting the samples collected during the past week. Additionally, samples collected from the transformers were shipped to EMSL laboratories for PCB confirmatory analysis.

ORC received a written request from GAF requesting additional time to answer the 104 E letter. Request has been granted. ORC unable to reach Vanguard Vinyl Siding owners to date.

OSC and TAT notified and briefed nearby neighbors, local Fire Department and the city Hazmat team of the on-going asbestos abatement activities.

### J. Enforcement

GAF responded in writing to the 104E letter requesting additional time. Additional time was granted for the second time.

### C. Next Steps

1. The intended removal action will continue as soon as the asbestos abatement is completed.
2. The Community Relations Plan and the Administrative Record are in progress.

V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	261,000
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	16,000
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	11,800
Letter Contracts	N/A
<hr/> TOTAL	<hr/> \$288,800
Project Ceiling	\$800,000
Percent of Project Funds Remaining	63%

RECEIVED  
FEB 3 1993

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: January 28, 1993  
From: Gad W. Tawadros, OSC  
Removal Action Branch  
To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJ  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Miones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Seven (7)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

ATTACHMENT 1

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS' asbestos abatement subcontractor continues asbestos mitigation in order for Guardian to remove and dispose of all CERCLA Hazardous substances.

##### 2. Removal Actions to Date

MARCOR asbestos abatement contractor continues to remove damaged, deteriorated, unwrapped pipe insulation and seal or cap ends with undamaged and/or intact wrapping. To date, approximately 350 LF of asbestos pipe insulation has been removed by glovebagging techniques. Bulk dust/powder material in building 10 has been collected and sealed in fiber drums. A high efficiency particulate asbestos (HEPA) vacuum is being used by the ERCS subcontractor to collect asbestos fibers and clean all debris from the horizontal surfaces in the north section of building 10.



SEP 15 1987 08:53 P.15

A waste decon area was set up along the SE loading dock of building 10 to allow for future disposal. All vinyl siding product boxes were relocated from building 10 to building 3. The subcontractor has chosen to remove all the vinyl siding from the box and wet wipe the siding to dispose as construction debris while bagging the boxes for disposal as asbestos contaminated debris.

BCM conducts daily air monitoring of various areas inside and around the site to determine the airborne fiber content, in addition to personal air monitoring conducted by MARCOR. EPA/TAT continues air monitoring with HNU and/or OVA.

A sample from the storage tank between buildings 3 and 10 was sent out for analysis to determine if it is asbestos. Meanwhile, ERCS will determine the integrity of the storage tank.

EPA is awaiting results of the oil and raw material analytical to determine the action on the boxes of PVC raw material and transformer oil. Verbal results of the PVC material does not show any hazardous constituents of concern.

The Community Relations Plan was submitted to the Office of External Programs (ORC).

### 3. Enforcement

Same as Polrep #6.

### C. Next Steps

1. The intended removal action will continue as soon as the asbestos abatement is completed in building 10. When MARCOR completes the asbestos abatement in building 10, ERCS will go in and address the drums while MARCOR works on building 3.
2. The Administrative Record is in progress.

V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	269,000
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	18,500
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	14,400
Letter Contracts	N/A
<hr/> TOTAL	<hr/> \$301,900
Project Ceiling	\$800,000
Percent of Project Funds Remaining	62%

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: February 4, 1993

From: Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Eight (8)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

III. Site Information

A. Incident Category

CERCLA incident category: Inactive Production Facility

B. Site Description

1. Site Background

Refer to POLREP No. 1

2. Description of the Threat

Refer to POLREP No. 1

3. Preliminary Assessment Results

Refer to POLREP No. 1

IV. Response Information

A. Planned Removal Action

Refer to POLREP No. 1

B. Situation

1. Current Situation

BRCS' asbestos abatement subcontractor continues asbestos mitigation in order for Guardian to remove and dispose of all CERCLA Hazardous substances.

2. Removal Actions to Date

MARCOR asbestos abatement contractor continues to remove damaged, deteriorated, unwrapped pipe insulation and seal or cap ends with undamaged and/or intact wrapping. To date, approximately 630 LF of asbestos pipe insulation has been removed from building 10. Building 10 is almost complete albeit power washing the wall and encapsulating the piping. MARCOR began cleaning out the rooms in building 3 and restage the pallet boxes of raw material from building 10 to building 3 while they clean building 10. The crew is scheduled to work on Saturday to make up for time lost on Tuesday due to the sub-zero temperatures.

JAN 27 1987 07:18 1134  
BCM continues to conduct daily air monitoring of various areas inside and around the site to determine the airborne fiber content, in addition to personal air monitoring conducted by MARCOR. Air samples taken around the site have been low in comparison to the CO requirements. In addition, EPA/TAT continues air monitoring with HNU and/or OVA.

The sample from the storage tank in the courtyard between buildings 3 and 10 came back positive for asbestos. The tank was inspected and there is no threat to ERCS during the clean up, therefore the tank will not be addressed under this Action Memo with the exception of ERCS securing the area.

Results from the transformer samples were received and 3 of the 4 transformer oils were below the 50 ppm regulatory limit while the large outside transformer had 150 ppm PCBs. Additionally, the TCLP analysis was returned on the 4 composite samples of the boxed raw materials and none of the results exceed TCLP regulatory limits.

EPA/TAT arranged a meeting with Wheaton Plastics Recycling facility to discuss recycling of both the finished and raw vinyl siding material. On February 3, EPA and TAT toured the facility and spoke with the manager about potential arrangements for recycling the vinyl materials from the site.

On February 2, EPA and TAT met with Bob Saunders (Gloucester City OEM) to discuss the removal and to obtain a potential outlet for recycling the material on site. During the meeting, concern over the status of the site upon EPAs departure was brought up, with regard to the cities understanding that the site would be totally clean. Due to the conflict in the Action Memo and what the city was told, interest was expressed to conduct a meeting with local and federal official to resolve the discrepancy prior to the demobilization of ERCS and their subcontractor.

### 3. Enforcement

The ORC has contacted potential property owners to have an Access Agreement signed to allow for the disposal of the finished product and raw material. They continue to search for the property owner.

### C. Next Steps

1. The intended removal action will continue as soon as the asbestos abatement is completed in building 10. When MARCOR completes the asbestos abatement in building 10, ERCS will go in and address the drums while MARCOR works on building 3.
2. The Administrative Record is in progress.

3. Recycling efforts will continue as the Access Agreement is reached.

V. Estimated Cost Information

Cost to Date

Clean-up Contractor	278,800
"Includes awaiting bill for all the asbestos abatement subcontract"	

TAT	21,150
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	16,000
Letter Contracts	N/A

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TOTAL	\$315,950
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Project Ceiling	\$800,000
Percent of Project Funds Remaining	60.5%

RECEIVED  
FEB. 18. 1993

Triggs

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

## I. Heading

Date: February 11, 1993

From: *W. J. C.*  
Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, ZEPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Nine (9)

## II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS' asbestos abatement subcontractor continues asbestos mitigation in order for Guardian to remove and dispose of all CERCLA Hazardous substances. Building #10 should be available next week for ERCS to begin addressing the drums.

##### 2. Removal Actions to Date

MARCOR asbestos abatement contractor continues to remove damaged, deteriorated, unwrapped pipe insulation and seal or cap ends with undamaged and/or intact wrapping. To date, approximately 630 LF of asbestos pipe insulation has been removed from building #10. Building #10 should be completed Friday, then BCM will conduct the clearance TEM air sampling. MARCOR will clear the section N of the loading dock and include it with building #10 so that they can continue to address the vinyl siding by wiping it down then storing it in a clean area. The TEM air sample will be analyzed with 24 hour turn around time. If the result is below the 0.01 fibers/cc, ERCS will begin addressing the drums in building #10, as described in the Action Memo. MARCOR will then concentrate clean up efforts in building #3. To date, 1300 LF of pipe insulation has been removed



from building #3. An additional 150 LF of insulation will be removed once the vinyl siding finished product is addressed.

Run off water from the power washing of the walls and floor of building #10 have been containerized and filtered. The material is brown in color after 5 micron filtering and disposal options are being investigated. Approximately 600 gallons of water have been generated. ERCS is obtaining quotes for analysis required by Camden County Municipal Utilities Authority for discharge into the sewer if the material is below the regulatory limit.

BCM continues to conduct daily air monitoring of various areas inside and around the site to determine the airborne fiber content, in addition to personal air monitoring conducted by MARCOR. Air sample taken around the site have been low in comparison to the CO requirements. EPA/TAT continues air monitoring with HNU and/or OVA.

Wheaton Plastic Recycling Co. facility, who initially expressed an interest in the material has not responded to recent contact. EPA/TAT continued to contact recycling facilities.

A National Significant Action Memo to mitigate the asbestos inside the 10,000 gallon tank and dispose of all stored asbestos material onsite is on hold at this time.

### 3. Enforcement

The ORC contacted the President of Vanguard Vinyl and faxed an Access Agreement on February 8, requesting his signature and return by February 11, so that the materials can be removed from the site. If ORC receives no reply, another consent agreement will be issued on February 12 with response required by February 16. If they still receive no reply, an order will be issued, signed by the RA.

### C. Next Steps

1. The intended removal action will begin in building 10 next week if the TEM results reveal a maximum fiber level of 0.01 f/cc in the air test and BCM gives the Certificate of Occupancy. MARCOR will continue the asbestos removal in building #3.
2. The Administrative Record has been completed and will be submitted to the repository.
3. Recycling efforts will continue as the Access Agreement is reached.

## V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	291,150
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	22,500
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	18,000
Letter Contracts	N/A
<hr/> TOTAL	<hr/> \$331,650
Project Ceiling	\$800,000
Percent of Project Funds Remaining	58. 5%

RECEIVED

FEB 26 1993

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: February 18, 1993

From: Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
- D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Ten (10)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-C19
Response Authority:	CERCLA
ERNE No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

ATTACHMENT 3

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS' asbestos abatement subcontractor completed building #10 on February 11, and the building was handed over to ERCS on February 12 with the Certificate of Occupancy. ERCS subcontractor continues asbestos mitigation in building #3 in order for Guardian to remove and dispose of all CERCLA Hazardous substances.

##### 2. Removal Actions to Date

MARCOR asbestos abatement contractor completed building #10. The clearance air sampling was taken and results of the TEM samples were received on February 12. The analysis showed 0.0053 and <0.0051 f/cc (below the regulatory standards for PCM analysis of 0.01 fibers/cc), and the Certificate of Occupancy was issued. Since TEM samples were taken at the asbestos survey, the clearance testing was analyzed with the same method. TEM distinguishes between asbestos fibers and other fibers whereas PCM only yields a total fiber count.

MARCOR continued the clean up in building #3 and the finished vinyl siding is being washed and staged in building #10 as directed by the OSC until an access agreement is reached by the ORC. An additional 150 LF of insulation will be removed from building #3 after the removal of the vinyl siding finished product is completed.

ERCS continues to stage cleaned boxes full with PVC materials in building #10 as well as drums from building #3. Drums in poor condition were overpacked and/or transferred to a reconditioned drum. TAT and ERCS labeled, sampled and transferred material from bags that were contaminated into 25 drums to be relocated from building #3 to building #10.

Run-off water from the power washing of the walls, ceiling and floor was sampled and sent out to a lab for analysis. MARCOR will filter the water to 5 micron particulate filter. Pending results whether hazardous or non-hazardous materials.

BCM continues to conduct daily air monitoring of various areas inside and around the site to determine the airborne fiber content, in addition to personal air monitoring conducted by MARCOR. EPA/TAT continues air monitoring with HNU and/or OVA.

The Administrative Record was deposited in the local repository.

The National Significant Action Memo to mitigate the asbestos inside the 10,000 gallon tank and dispose of all stored asbestos material onsite is on hold.

On February 15, Gloucester City Mayor Walter Jost and the City Emergency Management Coordinator met with the OSC and toured building #10. They would like to set up a meeting with local, state and federal officials to discuss the asbestos materials remaining on site and the future of the site after EPA's departure.

### 3. Enforcement

The President of Vanguard Vinyl responded to the ORC consent that he was not authorized to allow access. An order that will be signed by the Regional Administrator is currently in progress.

### C. Next Steps

1. The intended removal action will continue in building 10 next week. MARCOR will continue the asbestos removal in building #3.

2. Recycling efforts will continue as the Access Agreement is reached.

V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	303,250
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	28,000
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	20,000
Letter Contracts	N/A
<hr/> TOTAL	<hr/> \$351,250
Project Ceiling	\$800,000
Percent of Project Funds Remaining	56. 1%

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: March 3, 1993

From: Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJ  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Twelve (12)

II. Background

Site No.: 9E  
Delivery Order No.: 0027-02-019  
Response Authority: CERCLA  
ERNS No.: N/A  
NPL Status: Non-NPL  
State Notification: NJDEPE Notified  
Action Memorandum: Approved September 28, 1992  
Start Date: November 30, 1992  
Demobilization Date: N/A  
Completion Date: N/A

ATTACHED - 1035

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS' asbestos abatement subcontractor continues asbestos mitigation in building #3 in order for Guardian to remove and dispose of all CERCLA Hazardous substances. ERCS began to address the hazardous materials in building #10. TAT initiated a bulking scheme for the wastestreams.

##### 2. Removal Actions to Date

MARCOR continued the asbestos clean up in building #1. Additional 110 cy of empty boxes of the vinyl siding and debris was shipped to Ham Sanitary Landfill in Peterstown WV bringing the total to 220 cy. The three silos were emptied and materials staged in building #10. The tank of asbestos in the courtyard between buildings #10 and #3 has been secured.

All materials have been sampled and hazcatting is 95% completed to identify the material. Six preliminary compatibility groups have been identified. Additional testing will be done prior to compositing samples to reduce the number of samples sent out for analysis. Analytical for the 3 solid compatibility groups have been put on hold awaiting results of the consent order and potential

ATTACHMENT 13



recycling of this material.

On February 26, EPA and TAT conducted a site visit of Bay Industries, a potential PVC recycler. Another potential PVC recycler, Memphis Plastic Pipe Co. stopped by the site and expressed an interest in the material. The OSC and TAT inspected the PVC pipe manufacturing facility.

The decon wash water analysis results were received on February 24 and COD as well as sulfide exceed the CCMUA limits. On site pre-treatment is being investigated to allow the water to be disposed of at CCMUA. Additionally, wastewater treatment pricing is being obtained.

### 3. Enforcement

A consent order that will be signed by the Regional Administrator is currently in progress. Disposal/recycling of the PVC material will be addressed once the order is issued.

### C. Next Steps

1. Samples of the liquid wastes will be sent out for disposal analysis. The solid wastestream will be addressed once the recycling of PVC material is completed. MARCOR should be completed with the asbestos removal in building #3 by the end of the week.
2. Recycling efforts will continue as the Access Agreement is reached.

## V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	328,602
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	35,000
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	24,000
Letter Contracts	N/A
<hr/> TOTAL	<hr/> \$388,602
Project Ceiling	\$800,000
Percent of Project Funds Remaining	51. 4%

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: February 25, 1993

From: Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Eleven (11)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS' asbestos abatement subcontractor continues asbestos mitigation in building #3 in order for Guardian to remove and dispose of all CERCLA Hazardous substances. ERCS began to address the hazardous materials in building #10. All hazardous materials have been transferred to building #10 for ERCS to address.

##### 2. Removal Actions to Date

Asbestos stabilization activities continue in building #3. All drums and containers of hazardous materials have been staged in building #10. Hazcatting operations are ongoing to identify these materials. Approximately 110 cy of debris were removed from the site to reduce the fire load of the buildings.

The decon water generated during the power washing operation in building #10 was analyzed and requires pre-treatment prior to discharge into the Camden County Municipal Wastewater Utility.

Recycle options are being pursued for materials abandoned on site. ORC has drafted an order to the past president of Vanguard Vinyl which will be issued following the RA's

signature. ORC requested the OSC not to recycle any materials until the order is issued.

Bar Industries expressed an interest in the materials. The OSC scheduled a site visit on February 26 to inspect the facility.

On February 22, a representative from TRC was on site to conduct the PRP search. Approximately 72 documents were copied from documents in the building.

BCM continues to conduct daily air monitoring of various areas inside and around the site to determine the airborne fiber content, in addition to personal air monitoring conducted by MARCOR. EPA/TAT continues air monitoring with HNU and/or OVA.

### 3. Enforcement

The President of Vanguard Vinyl responded to the ORC consent that he was not authorized to allow access. An order that will be signed by the Regional Administrator is currently in progress.

### C. Next Steps

1. ERCS will continue to address the hazardous materials. MARCOR should be completed with the asbestos removal in building #3 next week.
2. Recycling efforts will continue as the Access Agreement is reached.

## V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	314,925
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	30,000
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	22,000
Letter Contracts	N/A
<b>TOTAL</b>	<b>\$364,925</b>
Project Ceiling	\$800,000
Percent of Project Funds Remaining	54. 4%

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: March 10, 1993

From: *W-f 'C*  
Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJF  
G. Zachos, ERR-RAE  
M. Pane, ERD-RAE-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Thirteen (13)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS' asbestos abatement subcontractor completed the asbestos clean up in both buildings #10 and #3. The CO for building #3 was issued on March 5, 1993. EPA/TAT bulked liquid samples for disposal analysis. The site will be temporarily demobilized awaiting results.

##### 2. Removal Actions to Date

MARCOR completed the asbestos clean up activities on site. Approximately 2100 LF of badly damaged pipe insulation was removed from building #3 and building #10. A Certificate of Occupancy was issued for building #3 on March 5, 1993. Approximately 330 cy of empty boxes of the vinyl siding and debris was shipped to Ham Sanitary Landfill for disposal. On March 9, the 500 gallon PCB transformer was pumped and flushed. The 12 drums generated from the cleaning were temporarily staged on site. There are 132 drums of hazardous material, PCB oils, decon water and empty drums. Additionally, there are 73 labpacks of paints, pigments and other small containers. The total PVC raw material on site is approximately 100 cubic yards, in addition to approximately 150 cubic yards of finished vinyl siding.

After hazcatting all the samples on site, the six original liquid composite groups were reduced to four liquid composite samples to be shipped for disposal analysis.

The decon wash water analysis results exceeded the CCMUA limits. Composite samples will be sent to the lowest bid for wastewater treatment.

### 3. Enforcement

A consent order that will be signed by the Regional Administrator is currently in progress. Disposal/recycling of the PVC material will be addressed once the order is issued.

### C. Next Steps

1. Samples of the hazardous liquid wastes will be sent out for disposal analysis.
2. Recycling efforts will continue when the order is issued, and the remaining solid wastestreams will be addressed then.

## V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	337,386
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	37,000
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	26,000
Letter Contracts	N/A
<hr/> TOTAL	<hr/> \$400,386
Project Ceiling	\$800,000
Percent of Project Funds Remaining	50.0 %

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: March 17, 1993

From: *W. J. Tawadros*  
Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJF  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Fourteen (14)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

ATTACHMENT *R-44*



### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS are preparing samples for shipment for disposal analysis. The site will be temporarily demobilized awaiting results.

##### 2. Removal Actions to Date

ERCS started to demobilize equipment and material for the break during disposal analysis. There are 132 drums of hazardous material, PCB oils, decon water and empty drums. The total PVC raw material on site is approximately 100 cubic yards, in addition to approximately 150 cubic yards of finished vinyl siding and approximately 60.5 cubic yards of asbestos pipe insulation. Additionally, there are 73 labpacks of paints, pigments and other small containers.

On March 9, the 500 gallon PCB transformer was pumped and flushed. The 12 drums generated from the cleaning were temporarily staged on site and should be transported on March 18, 1993 to Waste-Tech Services of Pittsfield, MA for blending/incineration and the PPE will be shipped to Chemical Waste Management, Model City, NJ for landfill.

UNCLASSIFIED 675

Four liquid samples will be sent for disposal analysis to Versar Lab in Springfield, VA. Two week turn around was requested. Disposal facilities will be contacted for a meeting on April 6 to bid on the waste with a closing date of April 9.

The OSC requested a time extension for delivery order #0027-02-019 until July 3, 1993 in order to complete removal activities as well as T&D all hazardous wastes.

The decon wash water is being analyzed for acceptance criteria and should be shipped out next week.

3. Enforcement

As before.

C. Next Steps

1. Once analytical for the liquid samples are received, disposal facilities will be contacted and the bidding of the waste will be done.
2. Recycling efforts will continue when the order is issued.

V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	352,000
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	41,000
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
IAG's	N/A
Intramural (HQ, Regions, ERT)	28,000
Letter Contracts	N/A
<hr/> TOTAL	<hr/> \$421,000
Project Ceiling	\$800,000
Percent of Project Funds Remaining	47.4 %

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APR 12 1993

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: April 1, 1993  
From: Gad W. Tawadros, OSC  
Removal Action Branch  
To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJ  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

POLREP NO: Sixteen (16)

II. Background

Site No.:	9E
Delivery Order No.:	0027-02-019
Response Authority:	CERCLA
ERNS No.:	N/A
NPL Status:	Non-NPL
State Notification:	NJDEPE Notified
Action Memorandum:	Approved September 28, 1992
Start Date:	November 30, 1992
Demobilization Date:	N/A
Completion Date:	N/A

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

Partial results from the disposal analysis have been received and tentative disposal options are being investigated. Eight disposal facilities have been invited to bid on the wastes; of these eight, six have accepted. The Nationally Significant Action Memo has been submitted for branch review.

##### 2. Removal Actions to Date

Guardian contacted eight facilities for the disposal bid walk thru on April 6, 1993. The following facilities have agreed to attend: Chem Waste, ENSCO, ECA, Code Environmental, NES and Southdown. Awaiting to hear from Clean Harbors and Capital Environmental. On March 31, EPA, TAT and GES T&D coordinator met to discuss disposal options for all liquid wastes utilizing the partial data received. The wastes carry D001, D003, F002 and potentially other D codes which will be determined once the remaining analytical results are received. The Nationally Significant Action Memo to address the asbestos materials on site was submitted for branch review on March 29, 1993.

3. Enforcement

As before.

C. Next Steps

1. On April 2, Region III TAT will be on site with their magnetometer to assess areas of suspected buried drums.
2. ERCS will start bulking the wastes on April 5, 1993.
3. On April 6, the bid walk for disposal of the wastes will take place with bids due by April 9. Once the facility is chosen wastes will be shipped off site.

V. Estimated Cost Information

Cost to Date

Clean-up Contractor	370,500
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"Includes awaiting bill for  
all the asbestos abatement  
subcontract"

TAT	45,500
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CLP Analytical Services	N/A
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REAC	N/A
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Regional Laboratory Services	N/A
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IAG's	N/A
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Intramural (HQ, Regions, ERT)	32,000
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Letter Contracts	N/A
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TOTAL	\$458,000
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Project Ceiling	\$800,000
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Percent of Project Funds Remaining	42.75%
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U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. Heading

Date: March 24, 1993  
From: Gad W. Tawadros, OSC  
Removal Action Branch  
To: W. Muszinski, EPA DRA  
K. Callahan, ERRD-D  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD 2ORC-NJSUP  
R. Gherardi, OPM-FIN  
M. Mjones, OS-210  
D. Mellot, EPA  
J. McVeith, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
✓ D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT  
Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey  
POLREP NO: Fifteen (15)

II. Background

Site No.: 9E  
Delivery Order No.: 0027-02-019  
Response Authority: CERCLA  
ERNS No.: N/A  
NPL Status: Non-NPL  
State Notification: NJDEPE Notified  
Action Memorandum: Approved September 28, 1992  
Start Date: November 30, 1992  
Demobilization Date: N/A  
Completion Date: N/A

APPROVED BY: R. S.

### III. Site Information

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

Refer to POLREP No. 1

##### 2. Description of the Threat

Refer to POLREP No. 1

##### 3. Preliminary Assessment Results

Refer to POLREP No. 1

### IV. Response Information

#### A. Planned Removal Action

Refer to POLREP No. 1

#### B. Situation

##### 1. Current Situation

ERCS shipped samples to lab for disposal analysis. Awaiting liquid wastes analytical results in order to transport and dispose of the hazardous wastes. ERCS continues demobilization pending analytical results.

##### 2. Removal Actions to Date

ERCS continued to demobilize equipment and material for the break during disposal analysis. The four liquid samples were sent for disposal analysis to Versar Lab in Springfield, VA. Two week turn around was requested. Disposal facilities will be contacted for a meeting on April 6 to bid on the waste with a closing date of April 9.

The PCB contaminated oil was transported on March 18, 1993 to Waste-Tech Services of Pittsfield, MA for blending/incineration and the PPE was shipped to Chemical Waste Management, Model City, NJ for landfill.

On March 19, the Gloucester City mayor, Director of Public Works, Fire Chief and Haz Mat Coordinator met with the OSC and conducted a site visit. The Mayor discussed the mitigative measures with the OSC to remove and dispose of the asbestos materials stored on site.

ATTACHMENT 1

Nationally Significant Action Memo is in progress.

A decision was reached by the RAB to allow the PVC raw materials and vinyl siding to be shipped for recycling. Efforts to contact the recycler are underway.

On March 24, the decon wash water was transported to Chem Waste Management in Newark, NJ for wastewater treatment.

### 3. Enforcement

As before.

### C. Next Steps

1. Once analytical results for the liquid samples are received, disposal facilities will be contacted and the bidding of the waste will proceed.
2. Recycling efforts will continue.

## V. Estimated Cost Information

	<u>Cost to Date</u>
Clean-up Contractor	365,100
"Includes awaiting bill for all the asbestos abatement subcontract"	
TAT	43,500
CLP Analytical Services	N/A
REAC	N/A
Regional Laboratory Services	N/A
LAG'S	N/A
Intramural (HQ, Regions, ERT)	30,000
Letter Contracts	N/A
<hr/> TOTAL	<hr/> \$438,600
Project Ceiling	\$800,000
Percent of Project Funds Remaining	45.2 %



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AUG 19 1993

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. HEADING

Date: August 5, 1993

Subject: Vanguard Vinyl Siding Site, Foot of Charles Street  
and Water Street, Gloucester City, Camden County,  
New Jersey

From: Gad W. Tawadros, OSC  
Removal Action Branch

To: W. Muszynski, EPA DRA  
K. Callahan, ERRD  
G. Pavlou, ERRD  
R. Salkie, ERR-DDNJP  
G. Zachos, ERR-RAB  
M. Pane, ERD-RAB-A  
J. Marshall, 2EPD  
R. Gherardi, OPM-FIN  
M. Mjannes, OS-210  
D. Mellot, EPA  
J. McVeigh, EPA  
D. Schwenk, EPA  
J. Frisco, EPA  
L. Miller, NJDEPE  
✓ K. Kloo, NJDEPE  
D. Triggs, NJDEPE  
ERD, Washington, (E-Mail)  
Bob Saunders, Gloucester City - OEM  
TAT

POLREP NO: 18 and final

II. BACKGROUND

Site No.: 9E  
Delivery Order No.: 0027-02-019  
Response Authority: CERCLA  
ERNS No.: N/A  
NPL Status: Non-NPL  
State Notification: NJDEPE Notified EPA on March 11,  
1992  
Action Memorandum: Approved September 28, 1992  
Start Date: December 10, 1992  
Demobilization Date: July 1, 1993  
Completion Date: July 2, 1993 All field activities  
terminated

ATTACHMENT 2 53

### III. SITE INFORMATION

#### A. Incident Category

CERCLA incident category: Inactive Production Facility

#### B. Site Description

##### 1. Site Background

The Vanguard Vinyl Siding Site (VVS) is located in Gloucester City, Camden County, in an industrial section of southwest New Jersey. The site consists of two connected manufacturing buildings (#3 and 10), on approximately 2.06 acres of property. Historically, the site was owned by Ruberoid Corporation who manufactured asbestos piping and shingles. In 1967, Ruberoid merged with GAF. From 1981 until 1983, VVS operated at the site producing plastic siding for homes and other buildings. The raw materials (PVC resin, stabilizers, plasticizers and pigments) were delivered by truck or rail car to the facility and the resin was stored in silos and mixed with stabilizers or pigments, then extruded in one of six process operations.

##### 2. Description of the Threat

On March 11, 1992, the New Jersey Department of Environmental Protection and Energy (NJDEPE) requested the EPA-Region II, Removal Action Branch to perform a CERCLA removal action at the VVS site. A preliminary assessment and removal evaluation were conducted on April 1, 1992. A threat of fire posed by the PVC materials existed. A fire would have resulted in a release of hydrochloric acid and vinyl chloride vapors to the nearby residential community.

#### C. Preliminary Assessment Results

During the preliminary assessment conducted on April 1, 1992, two buildings were investigated. This assessment revealed approximately 50-70 containers of varying sizes within and outside of the building, containing hazardous materials, oils, pigments, stabilizers, asbestos, PVC resins and some unknowns. Additionally, 60-70 boxes of powders (possibly PVC resins) and 35 bags of unknown powder were contained within the buildings at the site.

Samples were collected during the April 1, 1992 assessment for hazard categorization. Soil samples were analyzed for asbestos; 2-3% chrysotile asbestos was confirmed. Additionally, drum and powder samples revealed elevated levels of tetrachloroethylene, toluene and xylene.

#### IV. RESPONSE INFORMATION

##### A. Situation

###### 1. Current Situation

The scope of work proposed for Phase 1 of this project was successfully completed on July 2, 1993.

The OSC will continue with administrative activities associated with this removal.

The site is currently demobilized pending approval of the Nationally Significant Action Memorandum to remove and dispose of the stabilized asbestos material.

###### 2. Removal Actions to Date

On June 23 through July 1, 1993, the ERCS contractor strapped and bundled all of the abandoned vinyl siding product. The majority of this material was transported by Marcor to the Memphis Plastics facility for recycling.

Approximately 20 cubic yards of the abandoned vinyl siding remains on site. Due to the July 3 expiration of the ERCS contract, Memphis will provide the transportation and remove the remaining abandoned product, at no cost to the EPA, when they relieve their storage in the near future.

###### 3. Enforcement

An Administrative Order Directing compliance with Request for Access, issued to Vanguard Vinyl Siding, Inc., was signed by the Regional Administrator on April 19, 1993. Four PRP's were identified by ORC Enforcement action are in progress.

##### B. Planned Removal Actions

The VVS removal action consisted of removal of the CERCLA Hazardous Substances (excluding asbestos) and PVC material inside and outside the facility. The asbestos material inside the structure, posing significant hazard to the ERCS contractor was containerized/stabilized and stored on site.

ATTACHMENT 13

C. Next Steps

Awaiting for the Nationally Significant Action Memorandum approval. This Action Memorandum will address the stabilized asbestos stored in building # 10, the above ground storage tank containing asbestos and the asbestos soil investigation of the two courtyards.

The OSC Report for Phase 1 of this project is in progress.

D. Key Issues

The removal action was effective in mitigating the threat of all CERCLA Hazardous substances. All containerized materials characterized, overpacked and shipped for disposal. All asbestos contaminated materials and damaged asbestos insulation have been stabilized and stored on site.

A Request for Ceiling Increase Action Memo is pending the RA approval to mitigate the asbestos threat on site.

V. ESTIMATED COST INFORMATION

	<u>Cost to Date</u>
Cleanup Contractor	\$417,105
"Includes awaiting bill for all the asbestos abatement subcontractor"	
TAT	60,000
Intramural (HQ, Regions, ERT)	40,000
<hr/>	
TOTAL	\$517,105
Project Ceiling	\$800,000
Percent of Project Funds Remaining	35.4%

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractors. Other financial data, which the OSC must rely upon, may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

# VI. DISPOSITION OF WASTES

WASTESTREAM	MEDIUM	QUANTITY	CONTAMINATION MITIGATION CONTROL	TREATMENT	DISPOSAL
Asbestos	Solid	60.5 cu yds	Wetted, Double Bagged	Secured on site	-
Asbestos Contaminated Materials	Solid Sludge	320 cu yd 120 55- gal drums	Double bagged and boxed Drummed	Landfill	HAM Sanitary Landfill Peterstown WV
Asbestos Wastewaters	Liquid	3,000 gallons	Drummed	Wastewater Treatment	CWM Newark, NJ
Lab Packs	Liquid	100 gallons 3 drums	Drummed	Incineration	NES Wampsville NY
Neutral Liquids	Liquid	150 gallons 3 drums	Drummed	Wastewater Treatment	NES Wampsville N
Contaminated soil	Solid	Three drums	Drummed	Landfill	NES Wampsville NY
Organic Liquids	Liquid	800 gallons 17 drums	Drummed	Incineration /full blending	NES Wampsville NY
Oxidizers	Liquid	70 gallons 2 drums	Drummed	Incineration	NES Wampsville NY
PCB Oils	Liquid	2,287 Kg 12 drums	Drummed	Incineration	Clean Harbors, Braintree, MA
PPE	Solid	22-55- gallon drums	Drummed	Landfill	CWM Model City, NY
PVC Resin	Solid	30 tons	Boxed, drummed	Recycle	Memphis Plastic Phila. PA

All abandoned vinyl siding product were strapped and bundled and shipped for recycling with exception of about 20 c.y. will be shipped of site by the Recycling facilities at no cost to EPA.

ATTACHMENT S

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SEP 30 1993

K. Klost



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II

JACOB K. JAVITS FEDERAL BUILDING

NEW YORK, NEW YORK 10278

**ACTION MEMORANDUM**

**DATE:** SEP 23 1993

**SUBJECT:** Request for a Ceiling Increase at the Vanguard Vinyl Siding Site, Gloucester City, Camden County, New Jersey

**FROM:** Mark P. Pane, Chief  
Removal Action Section A

*Mark P. Pane*

**TO:** William J. Muszynski, P.E.  
Acting Regional Administrator

**THRU:** George Pavlou, Acting Director  
Emergency and Remedial Response Division

*JS Musio*

**Site ID# 9E**

**I. PURPOSE**

The purpose of this Action Memorandum is to request and document approval of the proposed ceiling increase at the Vanguard Vinyl Siding (VVS) Site Removal Action described herein. The site is located at the foot of Water and Charles Streets, Gloucester City, New Jersey, 08030. The funding requested in this memorandum is necessary to remove and dispose of the asbestos waste materials which are posing a threat of release at the site. The memorandum requests a ceiling increase of \$235,000, of which \$175,000 is for mitigation contracting. This increase, if approved, would raise the total project ceiling to \$1,035,000, of which \$765,000 is for mitigation contracting. The proposed action is of national significance since it will be taken solely to mitigate the threat posed by asbestos in an industrial area.

**II. SITE CONDITIONS AND BACKGROUND**

This Action Memorandum documents the time-critical removal action for this site and has a Comprehensive Environmental Response, Compensation, and Liability Information System ID number of NJD982530073.

ATTACHMENT 5

## **A. Site Description**

### **1. Removal site evaluation**

The VVS site occupies approximately 2.06 acres in an industrial section of Gloucester City. The Ruberoid Corporation produced asbestos piping and asbestos shingles at this location from 1950 through the 1960s. In 1967, Ruberoid merged with the GAF Corporation and continued asbestos product manufacturing until 1971. Between 1971 and 1981, GAF operated at the site producing vinyl siding. VVS purchased the property in 1981. VVS operated from 1981 to 1983, manufacturing plastic siding for use in residential and industrial construction. Sometime in 1983, VVS declared bankruptcy and abandoned the site. The liquidation bankruptcy proceeds were completed in 1985. VVS remains the record owner of the site.

A removal action was initiated in December, 1992, to secure the site and dispose of all hazardous materials, except asbestos waste, that had been abandoned. The asbestos material was stabilized during that action while Potentially Responsible Parties (PRPs) were being investigated. The PRP investigations are still ongoing, however the effectiveness of the asbestos stabilization action has continued to decline due to consistent acts of vandalism at the site.

### **2. Physical location**

The VVS Site is located in an industrial section of the city. The site is bounded by Water Street to the East, a vacant facility owned by GAF to the South, the Delaware River to the West and Koch Fuel Terminal to the North (see Attachment A, Figure 1). The nearest residential area is located less than 1,000 feet from the site. A large apartment complex (Gloucester Town) is located approximately 2,000 feet northeast of the site. Several schools, parks and playgrounds are located within one-half mile from the site.

### **3. Site characteristics**

The VVS Site consists of two manufacturing buildings, #3 and #10, that have been interconnected by smaller structures (see Attachment A, Figure 2). Historical site activities included the production of asbestos piping and asbestos shingle. VVS operated at the site from 1981 through 1983. During its operations, VVS produced plastic siding for homes and other buildings. The facility is now abandoned.

From recent analysis, the presence of asbestos has been confirmed in several locations. Records reveal that asbestos products were both manufactured and used in these buildings in the past.



Asbestos contamination inside buildings #3 & #10 was addressed by the previous removal action. This removal action is a restart.

**4. Release or threatened release into the environment of a hazardous substance, or pollutant or contaminant**

Asbestos is a hazardous substance as defined by Section 101(14) of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The asbestos posing a threat of release at this site exists in three separate areas. The first area is inside Building 10 and is bagged asbestos waste which was stabilized during the initial removal action. There is approximately 60 cubic yards of bagged asbestos waste staged in this building. The second location is in the soil between Buildings 3 and 10. This soil has been sampled between zero and three inches from the surface and found to contain 2% to 3% asbestos. The third location is also between building 3 and 10 and is in an aboveground 10,000 gallon storage tank. This tank has seriously deteriorated due to weather and is believed to contain over 5,000 gallons of asbestos material.

The mechanism for past releases at the VVS Site appears to have been spills, poor housekeeping and illegal disposal practices during the manufacturing of products that contained asbestos. The subsequent releases of asbestos in friable form to the air and soil include deterioration of the tank or containers, and disturbance by trespassers of the asbestos EPA stabilized. The buildings have shown evidence of trespassing and vandalism which increases the risk of a release of the bagged asbestos.

**5. National Priorities List (NPL) status**

The VVS site is not a NPL site and is not proposed for listing at this time.

**6. Maps, pictures and other graphic representations**

See Attachment A, Figures 1 and 2.

**B. Other Actions to Date**

**1. Previous actions**

On March 6, 1985, a PRP consultant sampled soil in several areas of the site. The results from one area indicated the presence of petroleum hydrocarbons, 1,2-dichloroethane, tetrachloroethane, and di-n-octyl phthalate. No other sampling or mitigative activities were taken by the PRPs.

No other government or private actions have been undertaken at the VVS site.

## 2. Current actions

On September 28, 1992, the Regional Administrator approved a total project ceiling of \$800,000 for a removal action at the VVS site. The scope of work for this removal action was to stabilize all friable asbestos and dispose of all hazardous substances.

The EPA removal action began in December 1992, and was effective in mitigating the threat of all listed CERCLA hazardous substances. As of May 18, 1993, all containerized materials have been sampled, characterized, overpacked and shipped for disposal. All asbestos contaminated materials and damaged asbestos insulation have been stabilized and stored on-site. This asbestos is continuing to pose a threat of release due to acts of vandalism at the site. The action proposed in this memorandum is to remove and dispose of this asbestos waste.

### C. State and Local Authorities' Roles

#### 1. State and local actions to date

The New Jersey Department of Environmental Protection and Energy (NJDEPE) issued Notices of Violation to VVS on November 5, 1986 and August 8, 1991. VVS failed to respond to these notices. The current mortgage holding company, ITT Diversified Credit Corporation, refuses property foreclosure, apparently since it would trigger an Environmental Cleanup Responsibility Act (ECRA) response. Since the mortgage is uncollectible, ITT Diversified Credit Corporation has distanced itself from any cleanup responsibilities. EPA has determined that ITT is not a viable PRP because they are not owners of the site.

On February 20, 1992, the NJDEPE personnel identified the presence of approximately 30 containers of varying sizes and conditions. Labels indicated that the drums contained ethylene glycol, oils, solvents, asbestos, 2-diethylhexyl phthalate, acrylic resin and titanium pigment. In addition, several unlabeled drums and shattered laboratory reagents were found scattered throughout the lab area. Following their assessment, on March 11, 1992, the NJDEPE referred the site to EPA for a CERCLA Removal Action. NJDEPE requested that EPA stabilize the asbestos and characterize, overpack and dispose of all chemical and related material to safeguard the health and welfare of the local population.

#### 2. Potential for continued State/local response

The NJDEPE referred the cleanup action to EPA. The State can not take timely action and the local government does not have the resources to respond and dispose of the asbestos at the site.

The State will continue to play a supporting role in the EPA cleanup. There are no State or local lead cleanup activities planned at this time.

### **III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES**

Asbestos is a known carcinogen and causes the respiratory disease, asbestosis. The route of entry is through inhalation and ingestion. Excessive cancer risks have been demonstrated at all fiber concentrations studied to date.

#### **A. Statutory and Regulatory Authorities**

Asbestos is a designated hazardous substance as listed in 40 CFR Table 302.4. Friable forms of asbestos in the soil, tank and bags of material on-site threaten surrounding residents with airborne exposure. This site continues to meet the following criteria for a removal action as cited in 40 CFR 300.415(b)(2):

- (i) Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;
- (iii) Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release;
- (iv) High levels of hazardous substances or pollutants or contaminants in the soils largely at or near the surface may migrate;
- (vii) The availability of other appropriate Federal or state response mechanisms to respond to the release.

#### **B. Threats to Public Health or Welfare**

The threat of exposure through direct contact with containers of asbestos, or soil containing asbestos is present at the site. The property and buildings have been accessed by trespassers, as evidenced by fires, graffiti and skateboarding ramps. The Gloucester City Fire Department has documented fires that have occurred over the years.

A release into the environment could potentially impact a residential neighborhood located 1,000 feet from the site. In addition, there are numerous schools, churches and a senior citizens apartment complex located within one-half mile of the site. All other CERCLA hazardous substances were removed from the site in the original removal action. Site security has been discontinued. Unauthorized access is still possible though holes in the perimeter fencing as a result of continuing vandalism. There are also numerous open doors, broken windows and holes in the walls of the building.

### **C. Threats to the Environment**

Weather conditions or acts of vandalism could easily cause the asbestos contamination to be released into the environment. Environmental concerns regarding a release at this site include the natural flora and fauna which may exist along the Delaware River Boat Basin.

### **IV. ENDANGERMENT DETERMINATION**

Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

### **V. PROPOSED ACTIONS AND ESTIMATED COSTS**

#### **A. Proposed Actions**

##### **1. Proposed action description**

The objective of this project is to eliminate the threat of direct contact with asbestos waste currently posed at the VVS Site. There are three sources of contamination to be removed. The first source is the asbestos which was stabilized during the initial Removal Action. The second source is the asbestos materials inside the deteriorating 10,000 gallon tank located at the south center courtyard. The third source is the asbestos contaminated soil in the courtyards.

The tank of asbestos will be handled by removing the material from the tank and decontaminating it. Soil sampling will be conducted in the courtyards to determine the extent of soil contamination. Based on the findings, appropriate actions will be taken to mitigate the threat posed by this contamination (i.e., removal of the soil or capping of the area which is presently inaccessible to any type of excavation equipment).

This cleanup action will not address the removal of existing asbestos pipe insulation that remains in the building, since it was undamaged and encapsulated in the original Removal Action.

All analytical data will have the appropriate levels of QA/QC to verify the extent of contamination sampling. Disposal of all asbestos will be at an off-site facility that is in compliance with the EPA Resource Conservation and Recovery Act (RCRA) policies.

Upon completion of this action no further activities are planned by EPA. Therefore, there will be no need for any post removal site controls.

## **2. Contribution to remedial performance**

The VVS Site has not been designated as an NPL site and no long-term remedial activities are planned at this time. Upon completion of this removal action no further activities are planned by EPA. The NJDEPE will be notified and they will determine the site's applicability under the ECRA Program. Since any of the proposed actions would be required in any future response, the scope of work is consistent with any permanent remedy. Actions proposed at this site will address those threats meeting the National Contingency Plan Section 300.415(b)(2)(i)(iii)(iv) and (vii) discussed in Section III.

## **3. Descriptions of alternative technologies**

Disposal options for the asbestos materials present on-site have been investigated thoroughly. Landfilling appears to be the best available method of disposal based on the selection criteria for effectiveness, implementability and cost. Should additional disposal options be made available, they will be evaluated on the same criteria.

## **4. Engineering Evaluation/Cost Analysis (EE/CA)**

Since the proposed Removal Action is time-critical this section is not applicable.

## **5. Applicable or relevant and appropriate requirements (ARARs)**

ARARs that are within the scope of this removal action which pertain to the excavation, stabilization and disposal of asbestos will be attained to the extent practicable.

Federal ARARs which have been determined to apply to the VVS site removal action include RCRA, the Toxic Substances Control Act, and the Hazardous Materials Transportation Act.

## **6. Project schedule**

The removal action at the site will begin upon approval of this Action Memorandum. The scope of work outlined in this action memorandum will take approximately one month of on-site activities to complete. This time frame may be extended if approval from an acceptable disposal facility can not be secured.

**B. ESTIMATED COSTS**

<u>Extramural Costs:</u>	<u>Current Ceiling</u>	<u>Estimated Cost for this Project</u>	<u>Proposed Ceiling</u>
--------------------------	------------------------	--	-------------------------

**Regional Allowance Costs:**

Estimated (ERCS) Costs (incl. 20% Contingency) (Rounded)	\$ 590,000	\$ 175,000	\$ 765,000
--	------------	------------	------------

**Other Extramural Costs Not Funded From the Regional Allowance:**

Estimated TAT Costs	\$ 29,430	\$ 18,828	\$ 48,258
Extramural Subtotal	\$ 619,430	\$ 193,828	\$ 813,258
15% Project Contingency	\$ 92,914	\$ 29,074	\$ 121,988
<b>TOTAL EXTRAMURAL COSTS INCL. CONTINGENCIES Rounded</b>	<b>\$ 712,344</b>	<b>\$ 222,902</b>	<b>\$ 935,246</b>

**Intramural Costs:**

Intramural Direct Costs. EPA Regional personnel	\$ 13,200	\$ 11,362	\$ 24,562
(HQ, Region, and)	\$ 40,000	\$ -0-	\$ 40,000
Total EPA Costs	\$ 53,200	\$ 11,362	\$ 64,562
<b>TOTAL PROJECT CEILING</b>	<b>\$ 765,544</b>	<b>\$ 234,264</b>	<b>\$ 999,808</b>
<b>ROUNDED</b>	<b>\$ 800,000*</b>	<b>\$ 235,000</b>	<b>\$1,035,000</b>

\* This amount reflects an error in the September 28, 1992 Action Memorandum.

**VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN**

Delaying this action will increase the possibility of a release at the site. There is no security at the site and acts of vandalism are expected to continue. This may cause a release which would impact anyone in contact with the materials and possibly the surrounding community.

## VII. OUTSTANDING POLICY ISSUES

The removal involves nationally significant and precedent setting issues because the action will be taken solely to mitigate the threat posed by asbestos in an industrial area. Other hazardous substances that were left on-site were removed in the first removal action taken. The asbestos was stabilized during that action while PRPs were being investigated. The PRP investigations are still ongoing, however the effectiveness of the asbestos stabilization action has continued to decline due to consistent acts of vandalism at the site.

## VIII. ENFORCEMENT

Vanguard Vinyl Siding, Inc. did not respond to Notices of Violation issued by NJDEPE on November 5, 1986 and August 8, 1991. In 1983, Vanguard filed for bankruptcy in U.S. Bankruptcy Court. The bankruptcy (liquidation) proceedings were completed in 1985. According to the New Jersey Secretary of State's office, Vanguard's corporate status is "void."

An Administrative Order Directing Compliance With Request for Access, issued to Vanguard Vinyl Siding, Inc., was signed by the Regional Administrator on April 19, 1993.

(Please see confidential addendum for further information.)

## IX. RECOMMENDATION

This decision document represents the selected removal action for the VVS Site in Gloucester City, Camden County, New Jersey, developed in accordance with CERCLA, as amended, and is not inconsistent with the NCP. This decision is based on the administrative record for the site.

Conditions at the site meet the criteria for a removal under the NCP Section 300.415(b)(2) and I recommend your approval of the proposed removal action. The total project ceiling if approved will be \$1,035,000, of which \$765,000 is coming from the Regional removal allowance.

There are sufficient funds in our current Advice of Allowance to fund this cleanup.

Please indicate your approval and authorization of funding for the VVS Site, as per current Delegation of Authority, by signing below.

Approval: William J. Muszynski  
William J. Muszynski, P.E.  
Acting Regional Administrator

Date: 9/29/53

Disapproval: \_\_\_\_\_  
William J. Muszynski, P.E.  
Acting Regional Administrator

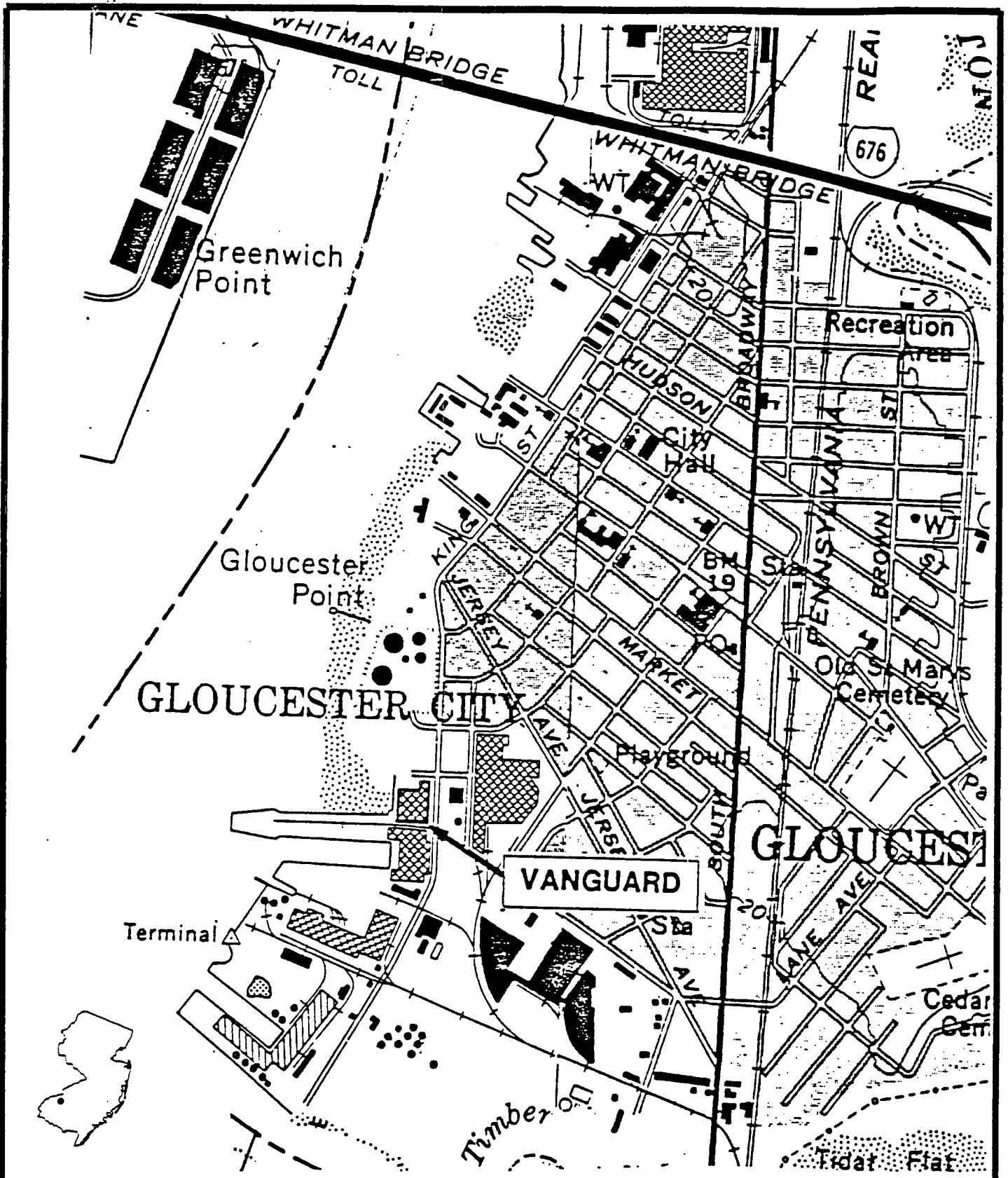
Date: \_\_\_\_\_

cc: (after approval is obtained)

K. Callahan, DRA  
G. Pavlou, ERRD-D  
R. Salkie, ERRD-ADREPP  
J. Frisco, ERRD-DDNJP  
G. Zachos, ERRD-RAB  
M. Pane, ERRD-RAB-A  
J. Marshall, EPD  
J. McVeigh, ORC-NJSUP  
R. Gherardi, OPM-FIN  
P. Cutts, OPM-FAM  
C. Moyik, ERRD-PS  
D. Dietrich, 5202G  
T. Grier, 5202G  
M. Mjoness, 5202G  
L. Miller, NJDEPE  
K. Kloo, NJDEPE  
C. Kelley, TATL



**ATTACHMENT A**  
**MAPS**



**Roy F. Weston, Inc.**  
**MAJOR PROGRAMS DIVISION**

IN ASSOCIATION WITH FOSTER WHEELER CORP.,  
C.C. JOHNSON & MALHOTRA, P.C., RESOURCE  
APPLICATIONS, INC. AND R.E. SARRIERA ASSOCIATES

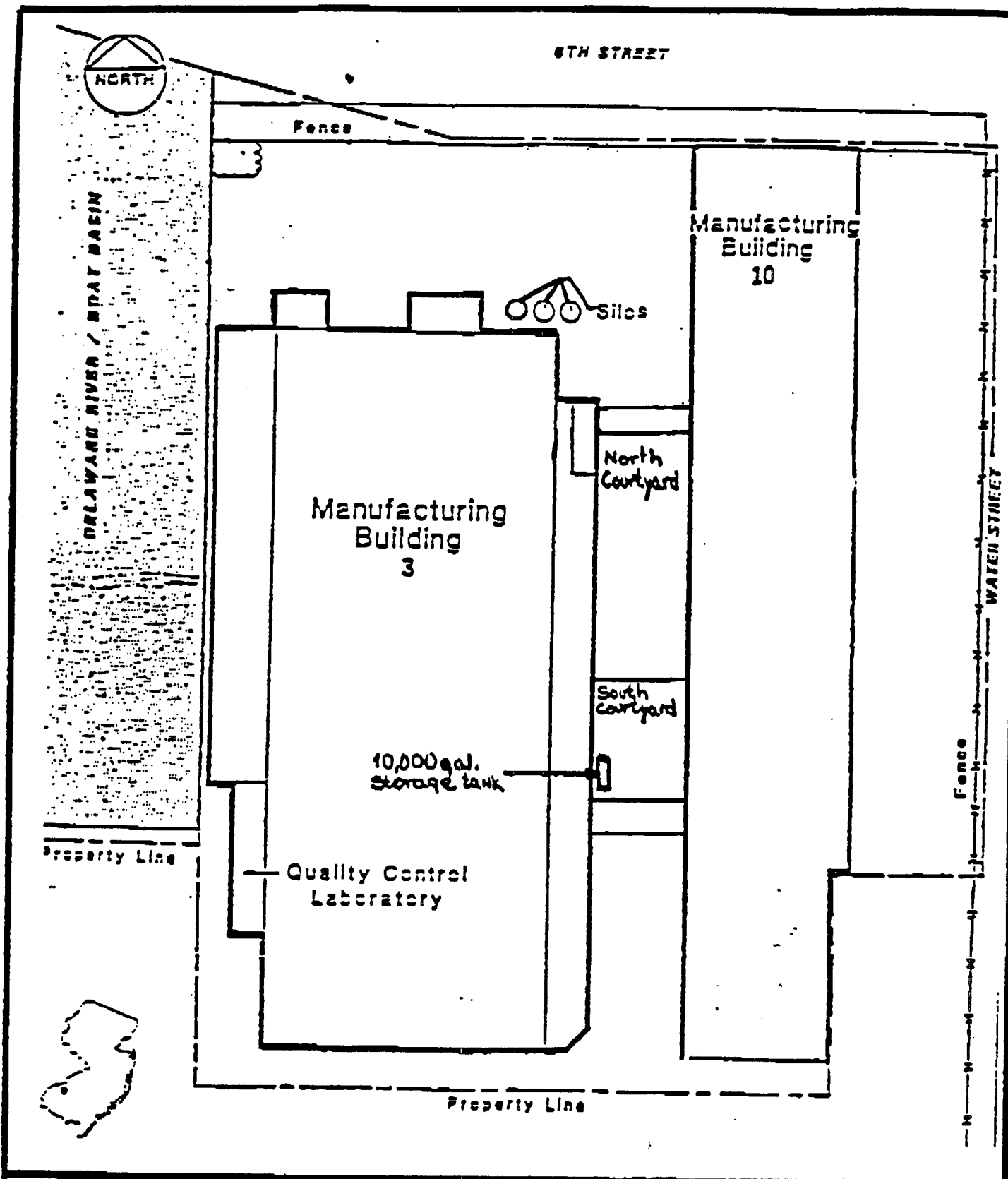
EPA PM  
G. Tawadros

TAT PM  
V. Vicenty

Vanguard Vinyl  
Siding

Figure 1  
Site Location

ATTACHMENT 1



Roy F. Weston, Inc.  
MAJOR PROGRAMS DIVISION

EPA PM  
G. Tawadros

Vanguard Vinyl  
Siding

IN ASSOCIATION WITH FOSTER WHEELER CORP.,  
C.C. JOHNSON & MALHOTRA, P.C., RESOURCE  
APPLICATIONS, INC. AND R.E. SARRIERA ASSOCIATES

TAT PM  
V. Vicenty

Figure 2  
Site Map

ATTACHMENT B  
ENFORCEMENT ADDENDUM

\* \* CONFIDENTIAL \* \* \* CONFIDENTIAL \* \* \* CONFIDENTIAL \* \*

DO NOT RELEASE UNDER FOIA - ENFORCEMENT SENSITIVE

DO NOT PLACE IN ADMINISTRATIVE RECORD

DO NOT RELEASE TO PUBLIC

CONFIDENTIAL ENFORCEMENT ADDENDUM

Vanguard Vinyl Siding Site  
Gloucester City, Camden County, New Jersey

A. Potentially Responsible Parties ("PRP") Search:

The current record owner of the site is Vanguard Vinyl Siding, Inc. ("Vanguard"). In 1983 Vanguard underwent liquidation bankruptcy proceedings in U.S. Bankruptcy Court which were completed in 1985. New Jersey Secretary of State records show Vanguard's corporate status as "void." Therefore, Vanguard Vinyl Siding, Inc. is not a viable PRP. ITT Commercial Finance Corporation ("ITT"), the holder of Vanguard's mortgage, has not foreclosed on the property, apparently to avoid New Jersey's Environmental Cleanup & Responsibility Act.

The Ruberoid Corporation produced asbestos building materials at the site during the 1950s and 1960s. In 1967 Ruberoid merged with the GAF Corporation ("GAF"). According to GAF's response to EPA's § 104(e) information request, GAF produced asbestos insulation at the site from 1967 to 1971 and thereafter manufactured vinyl siding. Vanguard purchased the property in 1981 and manufactured vinyl siding.

GAF is responsible for hazardous substances found at the site if the hazardous substances were disposed of at the site at the time GAF owned or operated the site. EPA is currently investigating whether GAF used a large storage tank found at the site that contains asbestos.

Notices of Violation issued by the NJDEPE in 1986 and 1991 to Vanguard, as well as NJDEPE's enforcement efforts against ITT, were unsuccessful in prompting either Vanguard or ITT to address the removal of hazardous materials remaining on-site.

B. Notification of PRPs of Potential Liability and of the Required Removal Action

Based on their response to the § 104(e) information request, EPA sent a notice letter to GAF. In response, GAF's "Notice of Intent" stated that while it is interested in entering into

ATTACHMENT 1

discussions with EPA, GAF believes that it is premature for it to commit to negotiate an agreement with EPA to perform a removal action until it has additional information regarding the finding of endangerment at the Site and EPA's preliminary determination that GAF is a PRP.

**C. Decision Whether to Issue an Order**

The Region's decision whether to issue an administrative order to GAF will depend upon EPA's ability to link GAF with a disposal of asbestos at the Site at the time GAF owned and operated at the Site. If EPA issues an order to GAF, the order would most likely require GAF to dispose of the stabilized asbestos containing materials at the site.

An Administrative Order Directing Compliance With Request for Access, issued to Vanguard Vinyl Siding, Inc., was signed by the Regional Administrator on April 19, 1993.

**D. Negotiation and Order Issuance Strategy**

Any negotiations and order issuance regarding GAF's performance of the actions proposed in this Action Memorandum would occur after this Action Memorandum has been approved.

Given the history of fires and vandalism at the Site, EPA may initiate the proposed response actions prior to issuance of any administrative orders. In the event that EPA receives a favorable response from any of the PRPs during EPA's performance of the Removal Action, a decision will be made to either complete the required actions or stabilize the hazardous materials pending the outcome of PRP negotiations. At the present time, it is the consensus of PSB, ORC and RAB that GAF's removal of asbestos materials would be the most likely possibility of PRP involvement.

ATTACHMENT T

## WORK PLAN FOR SITE INSPECTION

NAME OF SITE: VANGUARD VINYL SIDING, INC.

AKA: GAF VANGUARD VINYL SIDING

ADDRESS: CHARLES AND WATER STREETS

MUNICIPALITY: GLOUCESTER CITY

COUNTY: CAMDEN

EPA ID NUMBER: NJD9825300073

ACCESS GRANTED ? YES

SITE CONTACT(S): BOB SWANDER  
FIRE CHIEF

PHONE: 609-456-0060

AERIAL PHOTOS REVIEWED ? BY E. STEWART

### BACKGROUND INFORMATION:

VANGUARD VINYL SIDING PRODUCED PLASTIC SIDING FOR HOMES FROM 1981 THROUGH 1983 USING PVC RESINS, STABILIZERS, PLASTICIZERS AND PIGMENTS IN THE PRODUCTION PROCESS. SITE ACTIVITIES, DATING BACK TO THE 1950s, INCLUDED THE PRODUCTION OF ASBESTOS PIPING AND ASBESTOS SHINGLES WHILE UNDER OWNERSHIP BY THE RUBBEROID CORPORATION. THE FACILITY CONSISTS OF TWO MAIN BUILDINGS INTERCONNECTED BY WALKWAYS ENCLOSING TWO COURTYARDS. MATERIALS WERE PREDOMINANTLY STORED IN DRUMS, TANKS AND SILOS SITUATED ON AN OUTDOOR CONCRETE PAD ON THE NORTH SIDE OF THE MAIN BUILDING. DRUMS WERE ALSO STORED ON AN INDOOR DRUM RACK SITUATED IN THE NORTH WALKWAY. A 10,000-GALLON ABOVE GROUND STORAGE TANK, FILLED WITH RESIDUAL ASBESTOS, IS LOCATED IN THE SOUTH COURTYARD. THE ABANDONED FACILITY IS 2.06 ACRES IN SIZE AND IS SITUATED IN AN INDUSTRIAL PARK ADJACENT TO THE DELAWARE RIVER. MOST OF THE FENCED PROPERTY IS OVERGROWN WITH TREES AND SHRUBS OR PAVED IN ASPHALT.

<u>AREA OF CONCERN</u>	<u>AREA/VOLUME OF AREA OF CONCERN</u>	<u># OF SAMPLES</u>
1. RUNOFF FROM OUTDOOR PAD	40 feet long	2
2. RUNOFF FROM INDOOR DRUM RACK		2
3. INDOOR FLOOR TRENCHES	10' BY 3' (EACH)	4
4. ADJACENT TO 10,000-GALLON ABOVEGROUND STORAGE TANK		1
5. RUSTED DRUM CARCASSES		1

ATTACHMENT 1

REV 8/93



PRESAMPLING ASSESSMENT CHECK - OFF LIST

OWNERS NOTIFIED YES

ROUTE TO HOSPITAL MAP YES

WAREHOUSE CONTACTED (24 HOURS NOTICE)

MONITORING INSTRUMENTS:

OVA X-MET

HNu EXPLOSIMETER

RAD METER

Equipment:

SLAMBAR pH PAPER TYVEK

RESPIRATOR HARD HATS BOOTIES

CARTRIDGES COVERALLS GLOVES

IDENTIFICATION WORK BOOTS H<sub>2</sub>O COOLER

STAKES TOOL BOX DUCT TAPE

RAIN GEAR WELL - DEPTH INDICATOR BOLT CUTTER

LOCKS SAFETY GLASSES PAPER TOWELS

WELL KEYS FIELD LOG BOOK GARBAGE BAGS

COMPASS TAPE MEASURE CAMERA

FILM AUGER EXTENSION AUGER

7-11-77 T<sup>2</sup>

I. PRESAMPLING ASSESSMENT

DATE: SEPTEMBER 16, 1993

WEATHER CONDITIONS: CLOUDY, 70s

NJDEPE PERSONNEL: DAVID E. TRIGGS  
BOB RAISCH

TITLE: HSMS II  
HSMS II

SITE REPRESENTATIVES: BOB SWANDER

FIRE CHIEF

OVA DECAL #

HNu DECAL #

SITE DESCRIPTION: (mention stained soil, stressed vegetation, topography, surrounding area, waste management units).

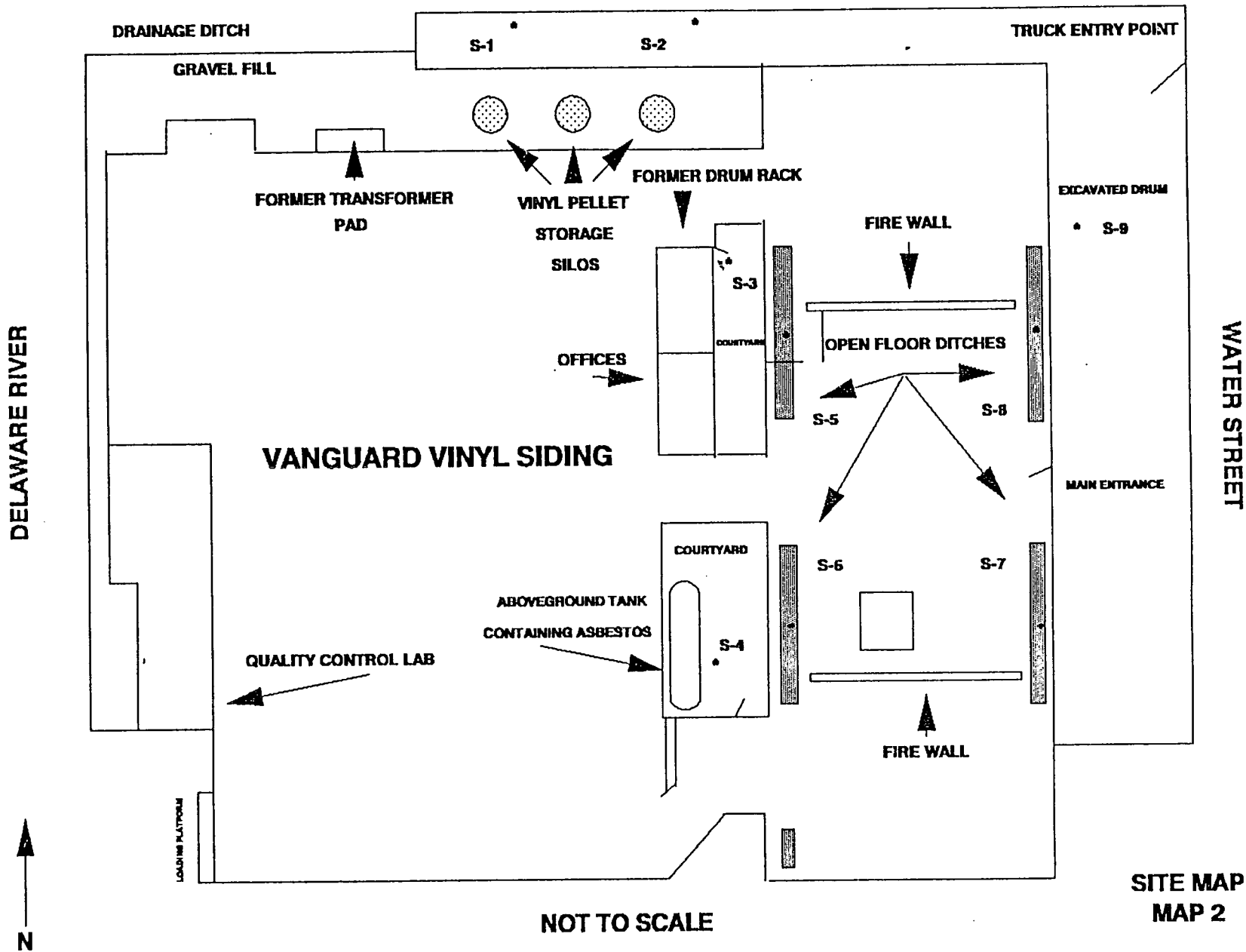
AREAS OF CONCERN NOTED DURING THE PSA AND NOT ADDRESSED AS PART OF THE EPA REMOVAL ACTION ARE THE FOLLOWING AREAS.

1. RUNOFF FROM FORMER DRUM STORAGE PAD (NORTH SIDE OF BUILDING)
2. RUNOFF FROM FORMER INDOOR DRUM STORAGE RACK
3. OPEN FLOOR TRENCHES WITHIN THE MAIN BUILDING
4. AREA SURROUNDING 10,000-GALLON ABOVEGROUND STORAGE TANK
5. RUSTED DRUM CARCASS

SAMPLE IDENTIFICATION	OVA READING	HNu READING	SAMPLE JUSTIFICATION/DEPTH
S-1			ADJACENT TO DRUM PAD (HIGHEST VOA READING ON CORE OR TO WATERTABLE FOR VOLATILES) (0 TO 6" OTHER)
S-2			SAME AS S-1
S-3			RUNOFF ROUTE FROM INDOOR DRUM RACK (6" TO 24" VOLATILES) (0 TO 6" OTHER)
S-4			COURTYARD SAMPLE ADJACENT TO 10,000 GALLON ABOVEGROUND STROAGE TANK (6" TO 24" VOLATILES) (0 TO 6" OTHER)
S-5			OPEN FLOOR TRENCH (6" TO 24" VO <sub>s</sub> ) (0 TO 6" OTHER)
S-6			OPEN FLOOR TRENCH (6" TO 24" VO <sub>s</sub> ) (0 TO 6" OTHER)
S-7			OPEN FLOOR TRENCH (6" TO 24" VO <sub>s</sub> ) (0 TO 6" OTHER)
S-8			OPEN FLOOR TRENCH (6" TO 24" VO <sub>s</sub> ) (0 TO 6" OTHER)
S-9			RUSTED DRUM CARCASS (6" TO 24" VO <sub>s</sub> ) (0 TO 6" OTHER)
S-10			DUPLICATE OF S-1

NOTE: Include a site map with the sampling locations identified and highlighted

ATTACHMENT 22



ATTACHMENT 15

## MONITORING WELLS

## ACCESS TO KEYS?

**CONVERSION FACTORS (CF) :**

2"=	.16	6"=	1.46
4"=	.65	8"=	2.6

MW #	DIAMETER	DEPTH TO WATER	DEPTH TO BOTTOM	WELL VOLUME (USE CF)	VOLUME TO PURGE (3Xs WELL VOLUME)	NEW LOCK # (IF APPLICABLE)	COMMENTS

## POTABLE WELLS

**OWNER'S NAME**

**ADDRESS**

**OWNER NOTIFIED**

**II. SAMPLING PLAN**

**PROPOSED DATE(S) OF SAMPLING:** 10/13/93

**PROPOSED NUMBER OF SAMPLES:** 12

**AQUEOUS      SAMPLE TYPE/NUMBER**

(TCL) FIELD BLANK

(VOA) FIELD BLANK    2

TRIP BLANK

GROUND WATER

SURFACE WATER

POTABLE WATER

DUPLICATE

OTHER

TOTAL AQUEOUS 2

**NON-AQUEOUS    SAMPLE TYPE/NUMBER**

SOIL    9

SEDIMENT

DUPLICATE    1

OTHER    1 MSMSD

TOTAL NON-AQUEOUS 10

**QA SAMPLES**

**SAMPLE TYPE/NUMBER**

**MATRIX**

**PARAMETER**

TRIP BLANK

AQUEOUS

VOA

FIELD BLANK 2

AQUEOUS

TOTAL USEPA TARGET COMPOUND LIST  
ORGANICS & INORGANICS AND/OR VOA

BACKGROUND

PERFORMANCE  
EVALUATION

NON-AQUEOUS

2,3,7,8-TCDD

**SAMPLING EQUIPMENT**

TROWELS      10

AUGERS      6

BAILERS

AUGER EXTENSIONS    6

DRIVE RODS

DRIVE HEADS

SPLIT SPOONS    9

LAB SPOONS    10

OTHER

ATTACHMENT I

**SAMPLING PROCEDURES:**

Lab cleaned and dedicated stainless steel trowels and augers will be used to collect soil samples. Groundwater samples will be collected using lab cleaned and dedicated teflon bailers. All sample containers will be provided by the laboratory prior to sampling.

NJDEPE/Division of Responsible Party Site Remediation sampling procedures and protocol will be followed as per the NJDEPE Field Sampling Procedures Manual, May, 1992.

**LABORATORY INFORMATION:**

1. NAME: NYTEST ENVIRONMENTAL INC. PARAMETER(S): TCL/TAL/TPHC

ADDRESS: 60 SEAVIEW BLVD.  
PORT WASHINGTON, NY 11050

CONTACT: JOHN GASPARI PHONE # 516-625-5500

FEDERAL EXPRESS ACCOUNT #:

2. NAME: PARAMETER(S):

ADDRESS:

CONTACT: PHONE #

FEDERAL EXPRESS ACCOUNT #:

**COSTS:**

LAB #1:

**SAMPLE TYPE/**

<u>TOTAL NUMBER</u>	<u>PARAMETER</u>	<u>COST EACH</u>	<u>TOTAL COST</u>
	AQUEOUS	TOTAL USEPA TCL	
10	NON-AQUEOUS	TOTAL USEPA TCL/TPHC 1662.50/67.50	16,625.00/675
	FIELD BLANK	TOTAL USEPA TCL	
2	FIELD BLANK	VOA 300.00	600.00
	TRIP BLANK	VOA	
		DELIVERY CHARGES	<u>70.00</u>
		PROJECT TOTAL	17,970.00

LAB #2:

AQUEOUS

NON-AQUEOUS

DELIVERY CHARGES  
PROJECT TOTAL

ATTACHMENT 1-3

SHIPPING AND HANDLING:

Samples will be chain-of-custody sealed in coolers supplied by the laboratory and returned via express carrier on the same day as sample collection. Aqueous samples will be kept at 4°C at all times.

III. QUALITY ASSURANCE PLAN

PROJECT DESCRIPTION

- A. Objective and scope statement: To characterize contaminants at the site and to determine the hazards these substances may pose to the environment and public health.
- B. Data usage: The data collected on this site inspection will be used to (1) determine if it is a hazardous waste site and, if so (2) prioritize it for future action.
- C. Monitoring design and rationale: The need for sampling was based on information obtained through file reviews and on-site observations during a pre-sampling assessment. The use of field monitoring instruments and visual observations helped to determine sample locations.
- D. Monitoring parameters: Total USEPA Target Compound List organics and inorganics

Other PETROLEUM HYDROCARBONS

PROJECT ORGANIZATION:

DAVID E. TRIGGS	CASE COORDINATOR
DAVID E. TRIGGS	SAMPLING COORDINATOR
FRANK SORCE	SAMPLING MANAGER
KENNETH KLOO	PROJECT MANAGER
ROBERT VAN FOSSEN	DISCHARGE RESPONSE ELEMENT ACTING ASSISTANT DIRECTOR
FRANK SORCE	DISCHARGE RESPONSE ELEMENT QA COORDINATOR
JOSEPH SANGUILLIANO	QA PERFORMANCE AUDITOR
MICHAEL MILLER	QAPP SYSTEMS AUDITOR

ATTACHMENT 3



DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION (DRPSR) ORGANIZATIONAL CHART:

KARL DELANEY  
DIRECTOR  
DRPSR

ROBERT VAN FOSSEN  
ACTING ASSISTANT DIRECTOR  
DISCHARGE RESPONSE ELEMENT

KENNETH KLOO  
PROJECT MANAGER  
MSCA

FRANK SORCE  
SAMPLING MANAGER

SAMPLING COORDINATOR  
DAVE TRIGGS

CASE COORDINATOR  
DAVE TRIGGS

FIELD SAMPLING TEAM

BOB BERETSKY      ANDY CYR  
PATRICIA HICKS  
JERRY O'DONNELL

DATA QUALITY MEASUREMENTS:

DATA REPRESENTATIVES:      A biased sampling approach is used since funding is limited. Areas of contamination are selected by use of field monitoring equipment, visual inspection, eyewitness reports and/or written reports.

DATA COMPARABILITY: The sample data collected on-site is compared to background data collected and to the NJDEPE Soil Cleanup Criteria and Ground Water Quality Standards.

QA/QC SAMPLES:

NON-AQUEOUS MATRIX

One field blank per day is to be collected only when volatile organics constitute a parameter being investigated. The field blank should only be analyzed for volatile organics. The field blank will be prepared by pouring lab demonstrated analyte free water over dedicated stainless steel and/or teflon sample equipment. This sample serves as a quality control of the sample collection procedures and the equipment cleaning process, ensuring contaminants are not being transferred to the sample via the sample collection equipment.

Trip blanks are not required for the non-aqueous matrix.

AQUEOUS MATRIX

One field blank per day is required. The field blank must be analyzed for all the same parameters as samples collected that day.

Trip blanks are required for aqueous sampling events. The trip blank will be filled with demonstrated analyte free water at the lab prior to shipment to the Bureau of Field Operations and will not be opened until it arrives back at the lab with the samples. This sample will serve as a quality control to ensure contaminants are not being transferred between containers during shipments, nor occurring as a result of laboratory contamination.

DOCUMENTATION, DATA REDUCTION AND REPORTING

- A. DOCUMENTATION: Documentation procedures are outlined in the NJDEPE Field Sampling and Procedures Manual, Section 13, May, 1992.
- B. DATA REDUCTION AND REPORTING: Data is reported under State Contract according to the lab deliverable package X-26174 or Regulatory Format.

DATA VALIDATION: The validation of MSCA Grant data is the assigned responsibility of BEMQA; QA Section Chief, Reference BEMQA SOP on data validation.

PERFORMANCE AND SYSTEMS AUDITS: The laboratory is participating in the lab audit program conducted by NJDEPE - OQA.

REPORTS TO MANAGEMENT

- a. Site inspection report filed with Region II EPA (Responsibility of Project Manager).
- b. Sampling Report filed with Sampling Manager on completion of sampling (Case Coordinator).
- c. Data Validation report filed with Sampling Manager and sampling file on completion of data review from BEMQA.
- d. Recommendations for site disposition will be made by case coordinator through the Section Chief and according to the DRPSR Case Management Strategy.

IV. HEALTH AND SAFETY

A. SITE/WASTE CHARACTERISTICS

WASTE TYPE:      LIQUID                      SOLID                      SLUDGE                      GAS

CHARACTERISTICS:      CORROSIVE                      IGNITABLE  
                         RADIOACTIVE                      VOLATILE  
                         TOXIC                      REACTIVE  
                         UNKNOWN                      OTHER

DESCRIPTION OF POSSIBLE SAFETY HAZARDS:

1. NUMEROUS PHYSICAL HAZARDS
2. POISON IVY
3. TICKS (LYMES DISEASE)
4. POSSIBLE RESIDUAL ASBESTOS IN SOME AREAS

B. SITE SAFETY PLAN

PERSONAL PROTECTION

LEVEL OF PROTECTION: (PLEASE INDICATE BELOW)

NJDEPE Protocol Level      will be employed by all personnel on site unless otherwise demonstrated to be inapplicable from the results of the field survey or changes in field conditions. Upgrading or downgrading will depend upon the factors encountered at the site.

Modifications: Strict contamination avoidance procedures are to be followed at all times. Contamination avoidance procedures include the following precautionary measures.

- o Hands, arms and face must be washed before eating, smoking or drinking.
- o No equipment will be removed from the work site until the sampling team leader verifies that the equipment has been satisfactorily decontaminated.
- o Clean protective clothing will be used daily, non-disposable equipment such as boots, gloves, goggles and hard hats will be cleaned daily.
- o Gross contact with skin irritants and other contaminants will be avoided by site personnel.
- o Where gross contact occurs, immediate flushing of the area with water will be performed.

## MONITORING

Ambient monitoring will be conducted on a continuous basis during all sampling operations. An HNu, OVA or TIP will be employed for organic vapor monitoring and a Biosystems Combustible Gas and O<sub>2</sub> Meter will be employed for O<sub>2</sub> depletion % LEL Levels. Air quality monitoring action levels, as determined by an organic vapor monitor, are as follows:

Background	-	Level D
* 0-5 PPM	-	Level C
* 5-500 PPM	-	Level B
* 500-1000 PPM	-	Level A

\* Concentrations above background

For the combustible gas and O<sub>2</sub> meter the action levels are as follows:

O<sub>2</sub> - 19.5% or 25%, Leave Site  
Combustible Gas 25% LEL, Leave Site

For radioactive measurements the action level is as follows:

Greater than 2 mr/hr Leave Site  
Above 0.08 mr/hr Proceed with caution

## DECONTAMINATION PROCEDURES

Personnel: Wash, rinse boots and gloves in Alconox and water, rinse again paying special attention to the soles of the boots. Remove gloves, remove coveralls, respirator, then surgical gloves. Wash hands and face.  
Equipment: Equipment will be washed in an Alconox and water mix, rinsed w/tap H<sub>2</sub>O, rinsed w/deionized water, rinsed w/acetone, air dry and rinsed w/deionized water.

Investigation - Derived Material Disposal: Disposable protective clothing, respirator cartridges and similar items will be bagged for disposal, and decontamination solutions will be drummed. These drums will be labeled and secured for proper disposal.

Safety Equipment: Portable eyewash stations and first aid kits will be readily available.

Site Access: The hazardous site will be considered a restricted area accessible only to personnel involved in site activities.

C. EMERGENCY INFORMATION

LOCAL RESOURCES

Ambulance: 456-0060

Poison Control Center: 1-800-962-1253

Police: 456-0900

Fire Department: 456-0060

Hospital Name: LADY OF LOURDES HOSPITAL Phone #: 757-3500

NOTE: Attach a map of the closest hospital with an emergency room. Highlight the route to the hospital from the site and include a written description of the directions.

DIRECTIONS TO HOSPITAL

JERSEY AVENUE TO ROUTE 551 (BROADWAY) NORTH  
ROUTE 551 TO CARMAN ST. (RIGHT)  
CARMAN ST. TO HADDON AVE. (RIGHT)  
HOSPITAL IS ON THE LEFT

EMERGENCY PROCEDURES

Team members will always work in groups of a minimum of two while at the site. Visual contact distance among team members must be maintained at all times.

A backup team member will be ready at all times when site work is ongoing in case of an emergency in the exclusion zone. The person will be dressed out in the same level of protection as people in the exclusion zone.

Under no circumstances will entry into confined spaces be performed by NJDEPE personnel unless approved by the agency safety and health officer.

WORK PLAN APPROVAL SIGNATURES

CASE COORDINATOR

SAMPLING COORDINATOR

SAMPLING MANAGER

PROJECT MANAGER

*[Handwritten signatures]*  
80  
80  
80  
80  
ATTACHMENT 14

ATTACHMENT U



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

Project No.: 9320470  
Log in No.: 18547  
P.O. No.: Pending  
Date: Nov. 17, 1993

SUMMARY DATA REPORT  
PACKAGE FOR

NJDEPE

300 Horizon Center

Robbinsville, NJ 08691

ATTN: Frank Sorce  
REF: Vanguard Vinyl

LABORATORY  
NUMBER

SAMPLE  
IDENTIFICATION

TYPE OF  
SAMPLE

SEE NEXT PAGE

WE CERTIFY THAT THIS REPORT IS A  
TRUE REPORT OF RESULTS OBTAINED  
FROM OUR TESTS OF THIS MATERIAL.

NYS Lab ID. #10195  
NJ Cert. #73469  
dg

RESPECTFULLY SUBMITTED,  
NYTEST ENVIRONMENTAL INC.

REMO GIGANTE  
EXEC. VICE PRESIDENT

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500

NYTEST ENVIRONMENTAL Inc.

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
1854701	S-1	Soil
1854702	S-2	Soil
1854703	S-3	Soil
1854704	S-4	Soil
1854705	S-5	Soil
1854706	S-6	Soil
1854707	S-7	Soil
1854708	S-8	Soil
1854709	S-9	Soil
1854710	S-10	Soil
1854711	S-5MS	Soil
1854712	S-5MSD	Soil
1854713	FB-SS	Water
1854714	FB-T	Water

ATTACHMENT 10



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SDG Narrative

0000001

ATTACHMENT 14

## SDG Narrative

Log In No.: 18547

### VOLATILE FRACTION

#### System Monitoring Compounds

The recoveries for Toluene-d8 and Bromofluorobenzene were outside QC limits in sample S-9. The sample was reanalyzed as S-9RE and the recovery for Bromofluorobenzene remained above QC limits. The recovery for Bromofluorobenzene was above QC limits in sample S-5. Since similar results were obtained for sample S-5MS, no further action was necessary. No further action was necessary.

#### Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample S-5 was utilized for the MS/MSD. Two out of ten spike recoveries and two out of five RPD values were outside advisory QC limits.

#### Method Blanks

Methylene Chloride was detected in VBLK09. Acetone was detected in VBLKD22. Methylene Chloride and Acetone were detected in VBLKD21. All target compounds detected in the method blanks were detected at concentrations within QC limits.

#### Calibrations

All initial and continuing calibrations passed QC criteria.

#### Internal Standards

All retention times were within QC limits. All three area responses were outside QC limits in sample S-9. The sample was reanalyzed as S-9RE. The area response for Chlorobenzene-d5 remained outside QC limits in sample S-9RE. Both sets of data have been submitted. All other area responses fell within acceptable ranges.

#### Samples

All samples were analyzed as per EPA CLP (3/90). No further analytical problems were encountered.

0000002

ATTACHED FILE

## SDG Narrative

Log In No.: 18547

### SEMIVOLATILE FRACTION

#### Surrogates

Surrogate recoveries for S-9 were outside QC limits due to the high dilution. No further analysis was performed. Recoveries were outside QC limits for S-3 and S-6. The samples were reextracted outside holding time and all recoveries were within QC limits. Both sets of data have been submitted. S-5MSD had recoveries outside QC limits. No further action was required since all recoveries were within QC limits for the unspiked sample and the MS. All other recoveries met QC criteria.

#### Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample S-5 was utilized for the MS/MSD. Five out of twenty-two spike recoveries and two out of eleven RPDs were outside the advisory QC limits. The unspiked sample, MS and MSD were diluted 1:10 prior to GPC analysis.

#### Method Blanks

Bis(2-Ethylhexyl)phthalate was detected in SBLK43 and SBLK66 at a concentration within QC limits. Two TICs were detected in SBLK43 and one in SBLK66. One TIC in each blank can be attributed to Aldol condensation.

#### Calibrations

The initial and continuing calibrations passed QC criteria.

#### Internal Standards

Samples S-5, S-5RE, S-5MS, S-5MSD, S-8, S-8RE, S-3 and S-6 had area responses outside QC limits. S-3RE and S-6RE had responses within QC limits. No further action was required. All retention times and all other area responses were within QC limits.

0000003

ATTACHMENT 1

SDG Narrative

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Log In No.: 18547

SEMIVOLATILE FRACTION CONT.'D

Samples

Due to the dark and viscous nature of the sample matrix, most samples were diluted before GPC analysis and again by the GC/MS analyst. Bis(2-Ethylhexyl)phthalate exceeded the calibration range of the instrument in S-1 which was initially analyzed at a 1:2 dilution. The sample was reanalyzed at a 1:4 dilution as S-1DL. Samples S-3 and S-6 were reextracted outside holding time due to poor surrogate recoveries. All samples were analyzed as per EPA CLP (3/90). No further problems were encountered.

0000004

ATTACHMENT 

## SDG Narrative

Log In No.: 18547

### PESTICIDE/PCB FRACTION

#### Surrogates

Samples S-2, S-6 and S-7 had TCX recovery outside advisory QC limits on column DB-608. Samples S-3, S-4, S-5 and PBLK72 had TCX recovery outside advisory QC limits on both columns. Samples S-5MS, S-5MSD and S-9 had DCB recovery above advisory QC limits on one column. Samples S-10, S-4, S-7 and S-8 had DCB recovery outside advisory QC limits on both columns. All other recoveries met QC criteria.

#### Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample S-5 was utilized for the MS/MSD. Eight (8) out of twelve (12) spike recoveries and one (1) out of six (6) RPD values were within QC limits for the MS and MSD.

#### Method Blanks

No target compounds were detected in PBLK09 and PBLK72.

#### Calibrations

The initial and continuing calibrations passed QC criteria.

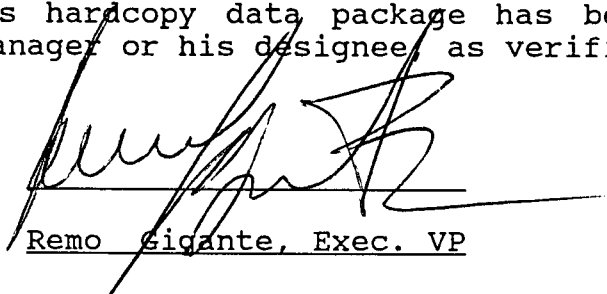
#### Samples

All samples were analyzed as per EPA CLP (3/90). Samples S-3, S-4, S-5, S-5MS, S-5MSD, S-6, S-7 and S-8 were diluted before GPC cleanup due to the viscous nature of the sample extracts. Samples S-3 and S-4 were further diluted 1:3 before GC analysis. Samples S-9 and S10 were diluted 1:3 before GC analysis. Samples S-1 and S-2 were diluted 1:2 and 1:4, respectively, before GC analysis. Dilutions before analysis were based on screening analysis to meet baseline requirements. No additional problems were encountered.

0000005

ATTACHMENT 11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

A handwritten signature in black ink, appearing to read 'Remo Gigante', is written over a horizontal line. The signature is stylized with a large, sweeping 'R' and a long horizontal stroke extending to the right.

Remo Gigante, Exec. VP

0000006

Form I

0000007

ATTACHMENT 22<sup>nd</sup>



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-SS

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547W SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 1854713

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K7645

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/18/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	B
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-SS

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547W SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 1854713

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K7645

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/18/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-T

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547W SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) WATER Lab Sample ID: 1854714

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K7644

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/18/93

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	7	BJ
67-64-1-----	Acetone	2	J
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

FB-T

Lab Name: NYTEST ENV INC Contract: 9320470Lab Code: NYTEST Case No.: 18547W SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) WATER Lab Sample ID: 1854714Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K7644Level: (low/med) LOW Date Received: 10/14/93% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 10/18/93GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 1 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	18.60	9	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-1

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854701

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7051

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 13 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	6	BJ
67-64-1	-----Acetone	12	B
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-1

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854701

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7051

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 13 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 2

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	19.93	7	J
2.	UNKNOWN	22.28	9	J

0000013

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-10

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854710

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7060

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 18 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	15	B
67-64-1-----	Acetone	7	BJ
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-10

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854710

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7060

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 18 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 3

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	19.32	8	J
2.	UNKNOWN AROMATIC	21.28	61	J
3.	UNKNOWN	22.13	9	J



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-2

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854702

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7052

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 14 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	6	BJ
67-64-1-----	Acetone	20	B
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-2

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854702

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7052

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 14 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 2 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.33	6	J
2.	UNKNOWN	19.68	8	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854703

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7053

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 24 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	13	U
74-83-9	-----Bromomethane	13	U
75-01-4	-----Vinyl Chloride	13	U
75-00-3	-----Chloroethane	13	U
75-09-2	-----Methylene Chloride	5	BJ
67-64-1	-----Acetone	13	U
75-15-0	-----Carbon Disulfide	13	U
75-35-4	-----1,1-Dichloroethene	13	U
75-34-3	-----1,1-Dichloroethane	13	U
540-59-0	-----1,2-Dichloroethene (total)	47	
67-66-3	-----Chloroform	13	U
107-06-2	-----1,2-Dichloroethane	13	U
78-93-3	-----2-Butanone	13	U
71-55-6	-----1,1,1-Trichloroethane	13	U
56-23-5	-----Carbon Tetrachloride	13	U
75-27-4	-----Bromodichloromethane	13	U
78-87-5	-----1,2-Dichloropropane	13	U
10061-01-5	-----cis-1,3-Dichloropropene	13	U
79-01-6	-----Trichloroethene	140	
124-48-1	-----Dibromochloromethane	13	U
79-00-5	-----1,1,2-Trichloroethane	13	U
71-43-2	-----Benzene	13	U
10061-02-6	-----trans-1,3-Dichloropropene	13	U
75-25-2	-----Bromoform	13	U
108-10-1	-----4-Methyl-2-Pentanone	13	U
591-78-6	-----2-Hexanone	13	U
127-18-4	-----Tetrachloroethene	220	
79-34-5	-----1,1,2,2-Tetrachloroethane	13	U
108-88-3	-----Toluene	2	J
108-90-7	-----Chlorobenzene	13	U
100-41-4	-----Ethylbenzene	13	U
100-42-5	-----Styrene	13	U
1330-20-7	-----Xylene (total)	13	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-3

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854703

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7053

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 24 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 4

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ACID	8.42	290	J
2.	UNKNOWN SILOXANE	19.92	14	J
3.	UNKNOWN	20.80	13	J
4.	UNKNOWN	21.58	12	J

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-4

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854704

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7054

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 36 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	16	U
74-83-9	-----Bromomethane	16	U
75-01-4	-----Vinyl Chloride	16	U
75-00-3	-----Chloroethane	16	U
75-09-2	-----Methylene Chloride	10	BJ
67-64-1	-----Acetone	8	BJ
75-15-0	-----Carbon Disulfide	16	U
75-35-4	-----1,1-Dichloroethene	16	U
75-34-3	-----1,1-Dichloroethane	16	U
540-59-0	-----1,2-Dichloroethene (total)	16	U
67-66-3	-----Chloroform	16	U
107-06-2	-----1,2-Dichloroethane	16	U
78-93-3	-----2-Butanone	16	U
71-55-6	-----1,1,1-Trichloroethane	16	U
56-23-5	-----Carbon Tetrachloride	16	U
75-27-4	-----Bromodichloromethane	16	U
78-87-5	-----1,2-Dichloropropane	16	U
10061-01-5	-----cis-1,3-Dichloropropene	16	U
79-01-6	-----Trichloroethene	16	U
124-48-1	-----Dibromochloromethane	16	U
79-00-5	-----1,1,2-Trichloroethane	16	U
71-43-2	-----Benzene	16	U
10061-02-6	-----trans-1,3-Dichloropropene	16	U
75-25-2	-----Bromoform	16	U
108-10-1	-----4-Methyl-2-Pentanone	16	U
591-78-6	-----2-Hexanone	16	U
127-18-4	-----Tetrachloroethene	16	U
79-34-5	-----1,1,2,2-Tetrachloroethane	16	U
108-88-3	-----Toluene	2	J
108-90-7	-----Chlorobenzene	16	U
100-41-4	-----Ethylbenzene	16	U
100-42-5	-----Styrene	16	U
1330-20-7	-----Xylene (total)	16	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-4

Lab Name: NYTEST ENV INC Contract: 9320470  
Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: 1854704  
Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7054  
Level: (low/med) LOW Date Received: 10/14/93  
% Moisture: not dec. 36 Date Analyzed: 10/19/93  
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 2

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.85	13	J
2.	UNKNOWN SILOXANE	21.10	47	J

0000021

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7055

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 37 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	16	U
74-83-9-----	Bromomethane	16	U
75-01-4-----	Vinyl Chloride	16	U
75-00-3-----	Chloroethane	16	U
75-09-2-----	Methylene Chloride	30	B
67-64-1-----	Acetone	39	B
75-15-0-----	Carbon Disulfide	16	U
75-35-4-----	1,1-Dichloroethene	16	U
75-34-3-----	1,1-Dichloroethane	16	U
540-59-0-----	1,2-Dichloroethene (total)	4	J
67-66-3-----	Chloroform	16	U
107-06-2-----	1,2-Dichloroethane	16	U
78-93-3-----	2-Butanone	16	U
71-55-6-----	1,1,1-Trichloroethane	16	U
56-23-5-----	Carbon Tetrachloride	16	U
75-27-4-----	Bromodichloromethane	16	U
78-87-5-----	1,2-Dichloropropane	16	U
10061-01-5-----	cis-1,3-Dichloropropene	16	U
79-01-6-----	Trichloroethene	19	
124-48-1-----	Dibromochloromethane	16	U
79-00-5-----	1,1,2-Trichloroethane	16	U
71-43-2-----	Benzene	16	U
10061-02-6-----	trans-1,3-Dichloropropene	16	U
75-25-2-----	Bromoform	16	U
108-10-1-----	4-Methyl-2-Pentanone	16	U
591-78-6-----	2-Hexanone	16	U
127-18-4-----	Tetrachloroethene	16	U
79-34-5-----	1,1,2,2-Tetrachloroethane	16	U
108-88-3-----	Toluene	66	
108-90-7-----	Chlorobenzene	16	U
100-41-4-----	Ethylbenzene	16	U
100-42-5-----	Styrene	16	U
1330-20-7-----	Xylene (total)	16	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-5

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7055

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 37 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	18.23	200	J
2.	UNKNOWN	18.95	250	J
3.	UNKNOWN ALKANE	19.47	280	J
4.	UNKNOWN CYCLOALKANE	19.67	260	J
5.	UNKNOWN ALKANE	19.80	410	J
6.	UNKNOWN ALKANE	20.32	190	J
7.	UNKNOWN	20.67	510	J
8.	UNKNOWN CYCLOALKANE	21.28	290	J
9.	UNKNOWN ALKANE	21.42	320	J
10.	UNKNOWN	22.15	740	J



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-6

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7071

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 34 Date Analyzed: 10/20/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	15	U
74-83-9-----	Bromomethane	15	U
75-01-4-----	Vinyl Chloride	15	U
75-00-3-----	Chloroethane	15	U
75-09-2-----	Methylene Chloride	6	J
67-64-1-----	Acetone	15	U
75-15-0-----	Carbon Disulfide	15	U
75-35-4-----	1,1-Dichloroethene	15	U
75-34-3-----	1,1-Dichloroethane	15	U
540-59-0-----	1,2-Dichloroethene (total)	15	U
67-66-3-----	Chloroform	15	U
107-06-2-----	1,2-Dichloroethane	15	U
78-93-3-----	2-Butanone	15	U
71-55-6-----	1,1,1-Trichloroethane	15	U
56-23-5-----	Carbon Tetrachloride	15	U
75-27-4-----	Bromodichloromethane	15	U
78-87-5-----	1,2-Dichloropropane	15	U
10061-01-5-----	cis-1,3-Dichloropropene	15	U
79-01-6-----	Trichloroethene	15	U
124-48-1-----	Dibromochloromethane	15	U
79-00-5-----	1,1,2-Trichloroethane	15	U
71-43-2-----	Benzene	15	U
10061-02-6-----	trans-1,3-Dichloropropene	15	U
75-25-2-----	Bromoform	15	U
108-10-1-----	4-Methyl-2-Pentanone	15	U
591-78-6-----	2-Hexanone	15	U
127-18-4-----	Tetrachloroethene	15	U
79-34-5-----	1,1,2,2-Tetrachloroethane	15	U
108-88-3-----	Toluene	15	U
108-90-7-----	Chlorobenzene	15	U
100-41-4-----	Ethylbenzene	15	U
100-42-5-----	Styrene	15	U
1330-20-7-----	Xylene (total)	15	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-6

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7071

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 34 Date Analyzed: 10/20/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.37	50	J
2.	UNKNOWN ALKANE	16.03	26	J
3.	UNKNOWN	16.32	25	J
4.	UNKNOWN	16.55	58	J
5.	UNKNOWN	17.93	44	J
6.	UNKNOWN	18.43	66	J
7.	UNKNOWN	19.80	70	J
8.	UNKNOWN	20.42	15	J
9.	UNKNOWN	21.20	15	J
10.	UNKNOWN	22.08	16	J

0000025

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-7

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854707

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7057

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 51 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	20	U
74-83-9-----	Bromomethane	20	U
75-01-4-----	Vinyl Chloride	20	U
75-00-3-----	Chloroethane	20	U
75-09-2-----	Methylene Chloride	35	B
67-64-1-----	Acetone	15	BJ
75-15-0-----	Carbon Disulfide	20	U
75-35-4-----	1,1-Dichloroethene	20	U
75-34-3-----	1,1-Dichloroethane	20	U
540-59-0-----	1,2-Dichloroethene (total)	20	U
67-66-3-----	Chloroform	20	U
107-06-2-----	1,2-Dichloroethane	20	U
78-93-3-----	2-Butanone	20	U
71-55-6-----	1,1,1-Trichloroethane	20	U
56-23-5-----	Carbon Tetrachloride	20	U
75-27-4-----	Bromodichloromethane	20	U
78-87-5-----	1,2-Dichloropropane	20	U
10061-01-5-----	cis-1,3-Dichloropropene	20	U
79-01-6-----	Trichloroethene	20	U
124-48-1-----	Dibromochloromethane	20	U
79-00-5-----	1,1,2-Trichloroethane	20	U
71-43-2-----	Benzene	20	U
10061-02-6-----	trans-1,3-Dichloropropene	20	U
75-25-2-----	Bromoform	20	U
108-10-1-----	4-Methyl-2-Pentanone	20	U
591-78-6-----	2-Hexanone	20	U
127-18-4-----	Tetrachloroethene	20	U
79-34-5-----	1,1,2,2-Tetrachloroethane	20	U
108-88-3-----	Toluene	7	J
108-90-7-----	Chlorobenzene	20	U
100-41-4-----	Ethylbenzene	20	U
100-42-5-----	Styrene	20	U
1330-20-7-----	Xylene (total)	20	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-7

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854707

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7057

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 51 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 1 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	22.05	13	J

0000027

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-8

Lab Name: NYTEST ENV INC Contract: 9320470  
 Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 1854708  
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7072  
 Level: (low/med) LOW Date Received: 10/14/93  
 % Moisture: not dec. 32 Date Analyzed: 10/20/93  
 GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	15	U
74-83-9	-----Bromomethane	15	U
75-01-4	-----Vinyl Chloride	15	U
75-00-3	-----Chloroethane	15	U
75-09-2	-----Methylene Chloride	5	J
67-64-1	-----Acetone	7	BJ
75-15-0	-----Carbon Disulfide	15	U
75-35-4	-----1,1-Dichloroethene	15	U
75-34-3	-----1,1-Dichloroethane	15	U
540-59-0	-----1,2-Dichloroethene (total)	15	U
67-66-3	-----Chloroform	15	U
107-06-2	-----1,2-Dichloroethane	15	U
78-93-3	-----2-Butanone	15	U
71-55-6	-----1,1,1-Trichloroethane	15	U
56-23-5	-----Carbon Tetrachloride	15	U
75-27-4	-----Bromodichloromethane	15	U
78-87-5	-----1,2-Dichloropropane	15	U
10061-01-5	-----cis-1,3-Dichloropropene	15	U
79-01-6	-----Trichloroethene	15	U
124-48-1	-----Dibromochloromethane	15	U
79-00-5	-----1,1,2-Trichloroethane	15	U
71-43-2	-----Benzene	15	U
10061-02-6	-----trans-1,3-Dichloropropene	15	U
75-25-2	-----Bromoform	15	U
108-10-1	-----4-Methyl-2-Pentanone	15	U
591-78-6	-----2-Hexanone	15	U
127-18-4	-----Tetrachloroethene	15	U
79-34-5	-----1,1,2,2-Tetrachloroethane	15	U
108-88-3	-----Toluene	2	J
108-90-7	-----Chlorobenzene	15	U
100-41-4	-----Ethylbenzene	15	U
100-42-5	-----Styrene	15	U
1330-20-7	-----Xylene (total)	15	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-8

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854708

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7072

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 32 Date Analyzed: 10/20/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 4 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	15.75	17	J
2.	UNKNOWN ALKANE	18.28	10	J
3.	UNKNOWN	19.82	21	J
4.	UNKNOWN SILOXANE	21.10	25	J

0000029 ATTACHMENT 1129

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-9

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854709

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7059

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 21 Date Analyzed: 10/19/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	31	B
67-64-1-----	Acetone	13	U
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	19	
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-9

Lab Name: NYTEST ENV INC Contract: 9320470  
Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
Matrix: (soil/water) SOIL Lab Sample ID: 1854709  
Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7059  
Level: (low/med) LOW Date Received: 10/14/93  
% Moisture: not dec. 21 Date Analyzed: 10/19/93  
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 3

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.90	7	J
2.	UNKNOWN AROMATIC	14.70	610	J
3.	UNKNOWN SILOXANE	19.30	80	J



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-9RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854709

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7073

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 21 Date Analyzed: 10/20/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	13	U
75-09-2-----	Methylene Chloride	6	J
67-64-1-----	Acetone	8	BJ
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Dibromochloromethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-Pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-88-3-----	Toluene	11	J
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylene (total)	13	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-9RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854709

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D7073

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: not dec. 21 Date Analyzed: 10/20/93

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 5 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.52	11	J
2.	UNKNOWN	19.98	49	J
3.	UNKNOWN SILOXANE	21.10	25	J
4.	UNKNOWN	22.22	10	J
5.	UNKNOWN	22.30	9	J

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-1

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7590

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	760	U
111-44-4	bis(2-Chloroethyl)Ether	760	U
95-57-8	2-Chlorophenol	760	U
541-73-1	1,3-Dichlorobenzene	760	U
106-46-7	1,4-Dichlorobenzene	760	U
95-50-1	1,2-Dichlorobenzene	760	U
95-48-7	2-Methylphenol	760	U
108-60-1	2,2'-oxybis(1-Chloropropane)	760	U
106-44-5	4-Methylphenol	760	U
621-64-7	N-Nitroso-di-n-propylamine	760	U
67-72-1	Hexachloroethane	760	U
98-95-3	Nitrobenzene	760	U
78-59-1	Isophorone	760	U
88-75-5	2-Nitrophenol	760	U
105-67-9	2,4-Dimethylphenol	760	U
111-91-1	bis(2-Chloroethoxy)methane	760	U
120-83-2	2,4-Dichlorophenol	760	U
120-82-1	1,2,4-Trichlorobenzene	760	U
91-20-3	Naphthalene	760	U
106-47-8	4-Chloroaniline	760	U
87-68-3	Hexachlorobutadiene	760	U
59-50-7	4-Chloro-3-methylphenol	760	U
91-57-6	2-Methylnaphthalene	760	U
77-47-4	Hexachlorocyclopentadiene	760	U
88-06-2	2,4,6-Trichlorophenol	760	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	760	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	190	J
208-96-8	Acenaphthylene	760	U
606-20-2	2,6-Dinitrotoluene	760	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	760	U

0000034

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-1

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7590

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	1800	U
100-02-7-----	4-Nitrophenol	1800	U
132-64-9-----	Dibenzofuran	760	U
121-14-2-----	2,4-Dinitrotoluene	760	U
84-66-2-----	Diethylphthalate	120	J
7005-72-3-----	4-Chlorophenyl-phenylether	760	U
86-73-7-----	Fluorene	760	U
100-01-6-----	4-Nitroaniline	1800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	760	U
101-55-3-----	4-Bromophenyl-phenylether	760	U
118-74-1-----	Hexachlorobenzene	760	U
87-86-5-----	Pentachlorophenol	1800	U
85-01-8-----	Phenanthrene	490	J
120-12-7-----	Anthracene	760	U
86-74-8-----	Carbazole	760	U
84-74-2-----	Di-n-Butylphthalate	150	J
206-44-0-----	Fluoranthene	690	J
129-00-0-----	Pyrene	700	J
85-68-7-----	Butylbenzylphthalate	760	U
91-94-1-----	3,3'-Dichlorobenzidine	760	U
56-55-3-----	Benzo(a)anthracene	290	J
218-01-9-----	Chrysene	360	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	7800	BE
117-84-0-----	Di-n-octylphthalate	760	U
205-99-2-----	Benzo(b)fluoranthene	280	J
207-08-9-----	Benzo(k)fluoranthene	190	J
50-32-8-----	Benzo(a)pyrene	200	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	760	U
53-70-3-----	Dibenz(a,h)anthracene	760	U
191-24-2-----	Benzo(g,h,i)perylene	760	U

0000035

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-1

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7590

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 21 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.85	14000	ABJ
2.	UNKNOWN	10.55	2400	J
3.	UNKNOWN	10.66	1100	J
4.	UNKNOWN ACID	12.90	290	J
5.	UNKNOWN	15.96	180	J
6.	UNKNOWN ALKANE	16.81	520	J
7.	UNKNOWN ALKANE	17.46	450	J
8.	UNKNOWN	17.70	180	J
9.	UNKNOWN	17.93	320	J
10.	UNKNOWN ALKANE	19.91	280	J
11.	UNKNOWN ALKANE	20.52	180	J
12.	UNKNOWN ALKANE	20.61	360	J
13.	UNKNOWN ALKANE	21.83	260	J
14.	UNKNOWN ALKANE	26.83	2700	J
15.	UNKNOWN	28.01	4200	J
16.	UNKNOWN ALKANE	29.27	1600	J
17.	UNKNOWN	31.56	810	J
18.	UNKNOWN	35.01	2000	J
19.	UNKNOWN	41.50	930	J
20.	UNKNOWN	45.37	1700	J
21.	UNKNOWN	48.53	1100	J

0000036

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-IDL

Lab Name: NYTEST ENV INC Contract: 9320470Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOIL Lab Sample ID: 1854701Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7607Level: (low/med) LOW Date Received: 10/14/93% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/18/93Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93Injection Volume: 2.0 (uL) Dilution Factor: 4.0GPC Cleanup: (Y/N) Y pH: 7.4

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	1500	U
111-44-4-----	bis(2-Chloroethyl)Ether	1500	U
95-57-8-----	2-Chlorophenol	1500	U
541-73-1-----	1,3-Dichlorobenzene	1500	U
106-46-7-----	1,4-Dichlorobenzene	1500	U
95-50-1-----	1,2-Dichlorobenzene	1500	U
95-48-7-----	2-Methylphenol	1500	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	1500	U
106-44-5-----	4-Methylphenol	1500	U
621-64-7-----	N-Nitroso-di-n-propylamine	1500	U
67-72-1-----	Hexachloroethane	1500	U
98-95-3-----	Nitrobenzene	1500	U
78-59-1-----	Isophorone	1500	U
88-75-5-----	2-Nitrophenol	1500	U
105-67-9-----	2,4-Dimethylphenol	1500	U
111-91-1-----	bis(2-Chloroethoxy)methane	1500	U
120-83-2-----	2,4-Dichlorophenol	1500	U
120-82-1-----	1,2,4-Trichlorobenzene	1500	U
91-20-3-----	Naphthalene	1500	U
106-47-8-----	4-Chloroaniline	1500	U
87-68-3-----	Hexachlorobutadiene	1500	U
59-50-7-----	4-Chloro-3-methylphenol	1500	U
91-57-6-----	2-Methylnaphthalene	1500	U
77-47-4-----	Hexachlorocyclopentadiene	1500	U
88-06-2-----	2,4,6-Trichlorophenol	1500	U
95-95-4-----	2,4,5-Trichlorophenol	3700	U
91-58-7-----	2-Chloronaphthalene	1500	U
88-74-4-----	2-Nitroaniline	3700	U
131-11-3-----	Dimethylphthalate	160	DJ
208-96-8-----	Acenaphthylene	1500	U
606-20-2-----	2,6-Dinitrotoluene	1500	U
99-09-2-----	3-Nitroaniline	3700	U
83-32-9-----	Acenaphthene	1500	U

0000037

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-1DL

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7607

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	3700	U
100-02-7-----	4-Nitrophenol	3700	U
132-64-9-----	Dibenzofuran	1500	U
121-14-2-----	2,4-Dinitrotoluene	1500	U
84-66-2-----	Diethylphthalate	1500	U
7005-72-3-----	4-Chlorophenyl-phenylether	1500	U
86-73-7-----	Fluorene	1500	U
100-01-6-----	4-Nitroaniline	3700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	3700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1500	U
101-55-3-----	4-Bromophenyl-phenylether	1500	U
118-74-1-----	Hexachlorobenzene	1500	U
87-86-5-----	Pentachlorophenol	3700	U
85-01-8-----	Phenanthrene	470	DJ
120-12-7-----	Anthracene	1500	U
86-74-8-----	Carbazole	1500	U
84-74-2-----	Di-n-Butylphthalate	1500	U
206-44-0-----	Fluoranthene	650	DJ
129-00-0-----	Pyrene	800	DJ
85-68-7-----	Butylbenzylphthalate	1500	U
91-94-1-----	3,3'-Dichlorobenzidine	1500	U
56-55-3-----	Benzo(a)anthracene	230	DJ
218-01-9-----	Chrysene	210	DJ
117-81-7-----	bis(2-Ethylhexyl)phthalate	8000	BD
117-84-0-----	Di-n-octylphthalate	1500	U
205-99-2-----	Benzo(b)fluoranthene	270	DJ
207-08-9-----	Benzo(k)fluoranthene	180	DJ
50-32-8-----	Benzo(a)pyrene	200	DJ
193-39-5-----	Indeno(1,2,3-cd)pyrene	1500	U
53-70-3-----	Dibenz(a,h)anthracene	1500	U
191-24-2-----	Benzo(g,h,i)perylene	1500	U

0000038

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-1DL

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7607

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 13 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 4 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.81	15000	JAB
2.	UNKNOWN	10.50	1000	J
3.	UNKNOWN ALKANE	19.88	390	J
4.	UNKNOWN ALKANE	20.57	420	J

0000039



1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-10

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854710

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7626

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 18 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	800	U
111-44-4-----	bis(2-Chloroethyl)Ether	800	U
95-57-8-----	2-Chlorophenol	800	U
541-73-1-----	1,3-Dichlorobenzene	800	U
106-46-7-----	1,4-Dichlorobenzene	800	U
95-50-1-----	1,2-Dichlorobenzene	800	U
95-48-7-----	2-Methylphenol	800	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	800	U
106-44-5-----	4-Methylphenol	800	U
621-64-7-----	N-Nitroso-di-n-propylamine	800	U
67-72-1-----	Hexachloroethane	800	U
98-95-3-----	Nitrobenzene	800	U
78-59-1-----	Isophorone	800	U
88-75-5-----	2-Nitrophenol	800	U
105-67-9-----	2,4-Dimethylphenol	800	U
111-91-1-----	bis(2-Chloroethoxy)methane	800	U
120-83-2-----	2,4-Dichlorophenol	800	U
120-82-1-----	1,2,4-Trichlorobenzene	800	U
91-20-3-----	Naphthalene	800	U
106-47-8-----	4-Chloroaniline	800	U
87-68-3-----	Hexachlorobutadiene	800	U
59-50-7-----	4-Chloro-3-methylphenol	800	U
91-57-6-----	2-Methylnaphthalene	800	U
77-47-4-----	Hexachlorocyclopentadiene	800	U
88-06-2-----	2,4,6-Trichlorophenol	800	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	800	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	140	J
208-96-8-----	Acenaphthylene	800	U
606-20-2-----	2,6-Dinitrotoluene	800	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	800	U

0000040

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-10

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854710

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7626

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 18 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	800	U
121-14-2-----	2,4-Dinitrotoluene	800	U
84-66-2-----	Diethylphthalate	110	J
7005-72-3-----	4-Chlorophenyl-phenylether	800	U
86-73-7-----	Fluorene	800	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	800	U
101-55-3-----	4-Bromophenyl-phenylether	800	U
118-74-1-----	Hexachlorobenzene	800	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	480	J
120-12-7-----	Anthracene	800	U
86-74-8-----	Carbazole	800	U
84-74-2-----	Di-n-Butylphthalate	1300	
206-44-0-----	Fluoranthene	770	J
129-00-0-----	Pyrene	620	J
85-68-7-----	Butylbenzylphthalate	800	U
91-94-1-----	3,3'-Dichlorobenzidine	800	U
56-55-3-----	Benzo(a)anthracene	280	J
218-01-9-----	Chrysene	360	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	2600	B
117-84-0-----	Di-n-octylphthalate	800	U
205-99-2-----	Benzo(b)fluoranthene	310	J
207-08-9-----	Benzo(k)fluoranthene	220	J
50-32-8-----	Benzo(a)pyrene	230	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	800	U
53-70-3-----	Dibenz(a,h)anthracene	800	U
191-24-2-----	Benzo(g,h,i)perylene	800	U

0000041

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-10

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854710

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7626

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 18 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 16

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.49	260	J
2.	UNKNOWN	6.82	14000	JAB
3.	UNKNOWN	6.94	390	J
4.	UNKNOWN	10.52	2800	J
5.	UNKNOWN	16.03	180	J
6.	UNKNOWN	17.92	210	J
7.	UNKNOWN ALKANE	19.91	240	J
8.	UNKNOWN ALKANE	20.61	250	J
9.	UNKNOWN ALKANE	21.81	180	J
10.	UNKNOWN	23.11	230	J
11.	UNKNOWN	24.24	1000	J
12.	UNKNOWN	24.42	400	J
13.	UNKNOWN	24.79	690	J
14.	UNKNOWN	25.63	600	J
15.	UNKNOWN	27.54	4700	J
16.	UNKNOWN	28.01	1600	J

0000042

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-2

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854702

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7608

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	380	U
111-44-4-----	bis(2-Chloroethyl)Ether	380	U
95-57-8-----	2-Chlorophenol	380	U
541-73-1-----	1,3-Dichlorobenzene	380	U
106-46-7-----	1,4-Dichlorobenzene	380	U
95-50-1-----	1,2-Dichlorobenzene	380	U
95-48-7-----	2-Methylphenol	380	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5-----	4-Methylphenol	380	U
621-64-7-----	N-Nitroso-di-n-propylamine	380	U
67-72-1-----	Hexachloroethane	380	U
98-95-3-----	Nitrobenzene	380	U
78-59-1-----	Isophorone	380	U
88-75-5-----	2-Nitrophenol	380	U
105-67-9-----	2,4-Dimethylphenol	380	U
111-91-1-----	bis(2-Chloroethoxy)methane	380	U
120-83-2-----	2,4-Dichlorophenol	380	U
120-82-1-----	1,2,4-Trichlorobenzene	380	U
91-20-3-----	Naphthalene	46	J
106-47-8-----	4-Chloroaniline	380	U
87-68-3-----	Hexachlorobutadiene	380	U
59-50-7-----	4-Chloro-3-methylphenol	380	U
91-57-6-----	2-Methylnaphthalene	380	U
77-47-4-----	Hexachlorocyclopentadiene	380	U
88-06-2-----	2,4,6-Trichlorophenol	380	U
95-95-4-----	2,4,5-Trichlorophenol	930	U
91-58-7-----	2-Chloronaphthalene	380	U
88-74-4-----	2-Nitroaniline	930	U
131-11-3-----	Dimethylphthalate	310	J
208-96-8-----	Acenaphthylene	47	J
606-20-2-----	2,6-Dinitrotoluene	190	J
99-09-2-----	3-Nitroaniline	930	U
83-32-9-----	Acenaphthene	41	J

0000043

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-2

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854702

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7608

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	930	U
100-02-7-----	4-Nitrophenol	930	U
132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	140	J
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	56	J
100-01-6-----	4-Nitroaniline	930	U
534-52-1-----	4,6-Dinitro-2-methylphenol	930	U
86-30-6-----	N-Nitrosodiphenylamine (1)	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	930	U
85-01-8-----	Phenanthrene	510	
120-12-7-----	Anthracene	96	J
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-Butylphthalate	170	J
206-44-0-----	Fluoranthene	730	
129-00-0-----	Pyrene	740	
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a)anthracene	360	J
218-01-9-----	Chrysene	490	
117-81-7-----	bis(2-Ethylhexyl)phthalate	640	B
117-84-0-----	Di-n-octylphthalate	380	U
205-99-2-----	Benzo(b)fluoranthene	350	J
207-08-9-----	Benzo(k)fluoranthene	270	J
50-32-8-----	Benzo(a)pyrene	320	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	200	J
53-70-3-----	Dibenz(a,h)anthracene	380	U
191-24-2-----	Benzo(g,h,i)perylene	380	U

0000044

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-2

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854702

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7608

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 21

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.83	490	JAB
2.	UNKNOWN	7.93	380	J
3.	UNKNOWN	10.52	3800	J
4.	UNKNOWN	10.60	1700	J
5.	UNKNOWN ALKANE	11.09	360	J
6.	UNKNOWN	16.78	520	J
7.	UNKNOWN AROMATIC HYDROCARBON	17.25	170	J
8.	UNKNOWN ALKANE	17.41	190	J
9.	UNKNOWN	17.90	330	J
10.	UNKNOWN AROMATIC	18.32	230	J
11.	UNKNOWN AROMATIC HYDROCARBON	18.81	210	J
12.	UNKNOWN	20.09	250	J
13.	UNKNOWN ALKANE	20.48	160	J
14.	UNKNOWN ALKANE	21.66	140	J
15.	UNKNOWN ACID	23.39	600	J
16.	UNKNOWN ALKANE	24.84	150	J
17.	UNKNOWN ALKANE	26.78	1600	J
18.	UNKNOWN	27.99	5800	J
19.	UNKNOWN	28.86	920	J
20.	UNKNOWN ALKANE	29.23	1300	J
21.	UNKNOWN ALKANE	34.98	1500	J

0000045

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7596

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
---------	----------	------------------------------	---

108-95-2-----	Phenol	1000	J
111-44-4-----	bis(2-Chloroethyl)Ether	1700	U
95-57-8-----	2-Chlorophenol	1700	U
541-73-1-----	1,3-Dichlorobenzene	1700	U
106-46-7-----	1,4-Dichlorobenzene	1700	U
95-50-1-----	1,2-Dichlorobenzene	1700	U
95-48-7-----	2-Methylphenol	1700	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	1700	U
106-44-5-----	4-Methylphenol	1700	U
621-64-7-----	N-Nitroso-di-n-propylamine	1700	U
67-72-1-----	Hexachloroethane	1700	U
98-95-3-----	Nitrobenzene	1700	U
78-59-1-----	Isophorone	1700	U
88-75-5-----	2-Nitrophenol	1700	U
105-67-9-----	2,4-Dimethylphenol	1700	U
111-91-1-----	bis(2-Chloroethoxy)methane	1700	U
120-83-2-----	2,4-Dichlorophenol	1700	U
120-82-1-----	1,2,4-Trichlorobenzene	1700	U
91-20-3-----	Naphthalene	1400	J
106-47-8-----	4-Chloroaniline	1700	U
87-68-3-----	Hexachlorobutadiene	1700	U
59-50-7-----	4-Chloro-3-methylphenol	1700	U
91-57-6-----	2-Methylnaphthalene	1900	
77-47-4-----	Hexachlorocyclopentadiene	1700	U
88-06-2-----	2,4,6-Trichlorophenol	1700	U
95-95-4-----	2,4,5-Trichlorophenol	4200	U
91-58-7-----	2-Chloronaphthalene	1700	U
88-74-4-----	2-Nitroaniline	4200	U
131-11-3-----	Dimethylphthalate	1700	U
208-96-8-----	Acenaphthylene	210	J
606-20-2-----	2,6-Dinitrotoluene	390	J
99-09-2-----	3-Nitroaniline	4200	U
83-32-9-----	Acenaphthene	350	J

0000046

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7596

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	4200	U
100-02-7-----	4-Nitrophenol	4200	U
132-64-9-----	Dibenzofuran	360	J
121-14-2-----	2,4-Dinitrotoluene	1700	U
84-66-2-----	Diethylphthalate	1700	U
7005-72-3-----	4-Chlorophenyl-phenylether	1700	U
86-73-7-----	Fluorene	340	J
100-01-6-----	4-Nitroaniline	4200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	4200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	210	J
101-55-3-----	4-Bromophenyl-phenylether	1700	U
118-74-1-----	Hexachlorobenzene	1700	U
87-86-5-----	Pentachlorophenol	4200	U
85-01-8-----	Phenanthrene	3400	
120-12-7-----	Anthracene	400	J
86-74-8-----	Carbazole	1700	U
84-74-2-----	Di-n-Butylphthalate	8100	
206-44-0-----	Fluoranthene	1200	J
129-00-0-----	Pyrene	1400	J
85-68-7-----	Butylbenzylphthalate	1700	U
91-94-1-----	3,3'-Dichlorobenzidine	1700	U
56-55-3-----	Benzo(a)anthracene	1400	J
218-01-9-----	Chrysene	1500	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	570	BJ
117-84-0-----	Di-n-octylphthalate	1700	U
205-99-2-----	Benzo(b)fluoranthene	660	J
207-08-9-----	Benzo(k)fluoranthene	680	J
50-32-8-----	Benzo(a)pyrene	760	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	610	J
53-70-3-----	Dibenz(a,h)anthracene	1700	U
191-24-2-----	Benzo(g,h,i)perylene	530	J

0000047



1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-3

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7596

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 21 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.87	16000	JAB
2.	UNKNOWN AROMATIC HYDROCARBON	9.40	1500	J
3.	UNKNOWN AROMATIC HYDROCARBON	10.05	3400	J
4.	UNKNOWN AROMATIC HYDROCARBON	10.62	5000	J
5.	UNKNOWN AROMATIC HYDROCARBON	11.13	1700	J
6.	UNKNOWN AROMATIC HYDROCARBON	11.25	2200	J
7.	UNKNOWN ALKANE	11.90	2600	J
8.	UNKNOWN AROMATIC HYDROCARBON	13.01	1700	J
9.	UNKNOWN ALKANE	14.78	1600	J
10.	UNKNOWN ALKANE	15.18	2500	J
11.	UNKNOWN AROMATIC HYDROCARBON	15.73	1400	J
12.	UNKNOWN CYCLOALKANE	16.00	1700	J
13.	UNKNOWN ALKANE	16.14	860	J
14.	UNKNOWN ALKANE	16.34	1400	J
15.	UNKNOWN ALKANE	16.67	4700	J
16.	UNKNOWN ALKANE	16.85	2300	J
17.	UNKNOWN AROMATIC HYDROCARBON	17.32	1500	J
18.	UNKNOWN ALKANE	17.54	2600	J
19.	UNKNOWN	17.97	1700	J
20.	UNKNOWN ALKANE	19.33	1200	J
21.	UNKNOWN	20.56	2300	J

0000048

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-3RE

Lab Name: NYTEST ENV INC Contract: 9320470Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOIL Lab Sample ID: 1854703Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7770Level: (low/med) LOW Date Received: 10/14/93% Moisture: 24 decanted: (Y/N) N Date Extracted: 10/30/93Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/08/93Injection Volume: 2.0 (uL) Dilution Factor: 4.0GPC Cleanup: (Y/N) Y pH: 7.0

## CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	310	J
111-44-4-----	bis(2-Chloroethyl)Ether	1700	U
95-57-8-----	2-Chlorophenol	1700	U
541-73-1-----	1,3-Dichlorobenzene	1700	U
106-46-7-----	1,4-Dichlorobenzene	1700	U
95-50-1-----	1,2-Dichlorobenzene	1700	U
95-48-7-----	2-Methylphenol	1700	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	1700	U
106-44-5-----	4-Methylphenol	1700	U
621-64-7-----	N-Nitroso-di-n-propylamine	1700	U
67-72-1-----	Hexachloroethane	1700	U
98-95-3-----	Nitrobenzene	1700	U
78-59-1-----	Isophorone	1700	U
88-75-5-----	2-Nitrophenol	1700	U
105-67-9-----	2,4-Dimethylphenol	1700	U
111-91-1-----	bis(2-Chloroethoxy)methane	1700	U
120-83-2-----	2,4-Dichlorophenol	1700	U
120-82-1-----	1,2,4-Trichlorobenzene	1700	U
91-20-3-----	Naphthalene	1200	J
106-47-8-----	4-Chloroaniline	1700	U
87-68-3-----	Hexachlorobutadiene	1700	U
59-50-7-----	4-Chloro-3-methylphenol	1700	U
91-57-6-----	2-Methylnaphthalene	2200	
77-47-4-----	Hexachlorocyclopentadiene	1700	U
88-06-2-----	2,4,6-Trichlorophenol	1700	U
95-95-4-----	2,4,5-Trichlorophenol	4200	U
91-58-7-----	2-Chloronaphthalene	1700	U
88-74-4-----	2-Nitroaniline	4200	U
131-11-3-----	Dimethylphthalate	450	J
208-96-8-----	Acenaphthylene	1700	U
606-20-2-----	2,6-Dinitrotoluene	1700	U
99-09-2-----	3-Nitroaniline	4200	U
83-32-9-----	Acenaphthene	1700	U

0000049

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7770

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 10/30/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	4200	U
100-02-7-----	4-Nitrophenol	4200	U
132-64-9-----	Dibenzofuran	1700	U
121-14-2-----	2,4-Dinitrotoluene	1700	U
84-66-2-----	Diethylphthalate	1700	U
7005-72-3-----	4-Chlorophenyl-phenylether	1700	U
86-73-7-----	Fluorene	1700	U
100-01-6-----	4-Nitroaniline	4200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	4200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1700	U
101-55-3-----	4-Bromophenyl-phenylether	1700	U
118-74-1-----	Hexachlorobenzene	1700	U
87-86-5-----	Pentachlorophenol	4200	U
85-01-8-----	Phenanthrene	1700	U
120-12-7-----	Anthracene	1700	U
86-74-8-----	Carbazole	1700	U
84-74-2-----	Di-n-Butylphthalate	1700	U
206-44-0-----	Fluoranthene	1700	U
129-00-0-----	Pyrene	1700	U
85-68-7-----	Butylbenzylphthalate	210	J
91-94-1-----	3,3'-Dichlorobenzidine	1700	U
56-55-3-----	Benzo(a)anthracene	1700	U
218-01-9-----	Chrysene	1700	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	760	BJ
117-84-0-----	Di-n-octylphthalate	1700	U
205-99-2-----	Benzo(b)fluoranthene	1700	U
207-08-9-----	Benzo(k)fluoranthene	1700	U
50-32-8-----	Benzo(a)pyrene	1700	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	1700	U
53-70-3-----	Dibenz(a,h)anthracene	1700	U
191-24-2-----	Benzo(g,h,i)perylene	1700	U

0000050

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-3RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7770

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 24 decanted: (Y/N) N Date Extracted: 10/30/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/08/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 21 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.70	13000	JAB
2.	UNKNOWN AROMATIC HYDROCARBON	9.21	1400	J
3.	UNKNOWN AROMATIC HYDROCARBON	9.86	3000	J
4.	UNKNOWN AROMATIC HYDROCARBON	10.45	4800	J
5.	UNKNOWN	10.53	1700	J
6.	UNKNOWN AROMATIC HYDROCARBON	10.94	1900	J
7.	UNKNOWN AROMATIC HYDROCARBON	11.08	2300	J
8.	UNKNOWN	11.73	1700	J
9.	UNKNOWN AROMATIC HYDROCARBON	12.62	490	J
10.	UNKNOWN AROMATIC HYDROCARBON	12.84	690	J
11.	UNKNOWN ALKANE	14.59	1500	J
12.	UNKNOWN	14.92	490	J
13.	UNKNOWN ALKANE	15.02	2200	J
14.	UNKNOWN AROMATIC HYDROCARBON	15.55	1500	J
15.	UNKNOWN	15.81	1500	J
16.	UNKNOWN ALKANE	15.95	910	J
17.	UNKNOWN ALKANE	16.16	1200	J
18.	UNKNOWN ALKANE	16.48	4400	J
19.	UNKNOWN ALKANE	16.69	2500	J
20.	UNKNOWN AROMATIC HYDROCARBON	17.13	1900	J
21.	UNKNOWN ALKANE	17.85	1800	J

0000051

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-4

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854704

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7597

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 36 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	1000	U
111-44-4	bis(2-Chloroethyl)Ether	1000	U
95-57-8	2-Chlorophenol	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	bis(2-Chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	2500	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2500	U
131-11-3	Dimethylphthalate	3600	
208-96-8	Acenaphthylene	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
99-09-2	3-Nitroaniline	2500	U
83-32-9	Acenaphthene	1000	U

0000052

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-4

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854704

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7597

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 36 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5-----	2,4-Dinitrophenol	2500	U
100-02-7-----	4-Nitrophenol	2500	U
132-64-9-----	Dibenzofuran	1000	U
121-14-2-----	2,4-Dinitrotoluene	1000	U
84-66-2-----	Diethylphthalate	840	J
7005-72-3-----	4-Chlorophenyl-phenylether	1000	U
86-73-7-----	Fluorene	1000	U
100-01-6-----	4-Nitroaniline	2500	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2500	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1000	U
101-55-3-----	4-Bromophenyl-phenylether	1000	U
118-74-1-----	Hexachlorobenzene	1000	U
87-86-5-----	Pentachlorophenol	2500	U
85-01-8-----	Phenanthrene	1000	U
120-12-7-----	Anthracene	1000	U
86-74-8-----	Carbazole	1000	U
84-74-2-----	Di-n-Butylphthalate	210	J
206-44-0-----	Fluoranthene	1000	U
129-00-0-----	Pyrene	1000	U
85-68-7-----	Butylbenzylphthalate	1000	U
91-94-1-----	3,3'-Dichlorobenzidine	1000	U
56-55-3-----	Benzo(a)anthracene	1000	U
218-01-9-----	Chrysene	1000	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	510	BJ
117-84-0-----	Di-n-octylphthalate	1000	U
205-99-2-----	Benzo(b)fluoranthene	1000	U
207-08-9-----	Benzo(k)fluoranthene	1000	U
50-32-8-----	Benzo(a)pyrene	1000	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	1000	U
53-70-3-----	Dibenz(a,h)anthracene	1000	U
191-24-2-----	Benzo(g,h,i)perylene	1000	U

0000053

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-4

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854704

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7597

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 36 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

Number TICs found: 21 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.82	6000	JAB
2.	UNKNOWN	10.55	9100	J
3.	UNKNOWN	10.65	2400	J
4.	UNKNOWN ALKANE	11.14	3000	J
5.	UNKNOWN ALKANE	11.52	1400	J
6.	UNKNOWN	12.21	1500	J
7.	UNKNOWN	12.98	2300	J
8.	UNKNOWN ALKANE	13.08	1100	J
9.	UNKNOWN	17.96	1900	J
10.	UNKNOWN	18.17	2100	J
11.	UNKNOWN	20.13	880	J
12.	UNKNOWN ACID	22.63	3300	J
13.	UNKNOWN ACID	23.42	850	J
14.	UNKNOWN	24.43	870	J
15.	UNKNOWN ALKANE	25.83	5300	J
16.	UNKNOWN ALKANE	26.83	2700	J
17.	UNKNOWN	27.95	2600	J
18.	UNKNOWN	28.88	3800	J
19.	UNKNOWN ALKANE	29.25	1800	J
20.	UNKNOWN	30.75	2000	J
21.	UNKNOWN	34.98	2100	J

0000054

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7598

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 37 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	5200	U
111-44-4	bis(2-Chloroethyl)Ether	5200	U
95-57-8	2-Chlorophenol	5200	U
541-73-1	1,3-Dichlorobenzene	5200	U
106-46-7	1,4-Dichlorobenzene	5200	U
95-50-1	1,2-Dichlorobenzene	5200	U
95-48-7	2-Methylphenol	5200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5200	U
106-44-5	4-Methylphenol	5200	U
621-64-7	N-Nitroso-di-n-propylamine	5200	U
67-72-1	Hexachloroethane	5200	U
98-95-3	Nitrobenzene	5200	U
78-59-1	Isophorone	5200	U
88-75-5	2-Nitrophenol	5200	U
105-67-9	2,4-Dimethylphenol	5200	U
111-91-1	bis(2-Chloroethoxy)methane	5200	U
120-83-2	2,4-Dichlorophenol	5200	U
120-82-1	1,2,4-Trichlorobenzene	5200	U
91-20-3	Naphthalene	5200	U
106-47-8	4-Chloroaniline	5200	U
87-68-3	Hexachlorobutadiene	5200	U
59-50-7	4-Chloro-3-methylphenol	5200	U
91-57-6	2-Methylnaphthalene	5200	U
77-47-4	Hexachlorocyclopentadiene	5200	U
88-06-2	2,4,6-Trichlorophenol	5200	U
95-95-4	2,4,5-Trichlorophenol	13000	U
91-58-7	2-Chloronaphthalene	5200	U
88-74-4	2-Nitroaniline	13000	U
131-11-3	Dimethylphthalate	5200	U
208-96-8	Acenaphthylene	5200	U
606-20-2	2,6-Dinitrotoluene	1100	J
99-09-2	3-Nitroaniline	13000	U
83-32-9	Acenaphthene	5200	U

0000055



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7598

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 37 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	13000	U
100-02-7-----	4-Nitrophenol	13000	U
132-64-9-----	Dibenzofuran	5200	U
121-14-2-----	2,4-Dinitrotoluene	5200	U
84-66-2-----	Diethylphthalate	5200	U
7005-72-3-----	4-Chlorophenyl-phenylether	5200	U
86-73-7-----	Fluorene	5200	U
100-01-6-----	4-Nitroaniline	13000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	13000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5200	U
101-55-3-----	4-Bromophenyl-phenylether	5200	U
118-74-1-----	Hexachlorobenzene	5200	U
87-86-5-----	Pentachlorophenol	13000	U
85-01-8-----	Phenanthrene	530	J
120-12-7-----	Anthracene	5200	U
86-74-8-----	Carbazole	5200	U
84-74-2-----	Di-n-Butylphthalate	5200	U
206-44-0-----	Fluoranthene	5200	U
129-00-0-----	Pyrene	5200	U
85-68-7-----	Butylbenzylphthalate	5200	U
91-94-1-----	3,3'-Dichlorobenzidine	5200	U
56-55-3-----	Benzo(a)anthracene	5200	U
218-01-9-----	Chrysene	5200	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2400	BJ
117-84-0-----	Di-n-octylphthalate	5200	U
205-99-2-----	Benzo(b)fluoranthene	5200	U
207-08-9-----	Benzo(k)fluoranthene	5200	U
50-32-8-----	Benzo(a)pyrene	5200	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	5200	U
53-70-3-----	Dibenz(a,h)anthracene	5200	U
191-24-2-----	Benzo(g,h,i)perylene	5200	U

0000056

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-5

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7598

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 37 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.7

Number TICs found: 19 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.81	10000	JAB
2.	UNKNOWN	9.97	1400	J
3.	UNKNOWN ALKENE	10.57	7100	J
4.	UNKNOWN	10.66	7000	J
5.	UNKNOWN	11.36	1500	J
6.	UNKNOWN	14.42	1500	J
7.	UNKNOWN	14.69	1200	J
8.	UNKNOWN	15.64	9600	J
9.	UNKNOWN	16.05	1100	J
10.	UNKNOWN	16.82	7700	J
11.	UNKNOWN	17.27	2500	J
12.	UNKNOWN	17.47	16000	J
13.	UNKNOWN ALKANE	17.69	4300	J
14.	UNKNOWN AROMATIC	18.36	4900	J
15.	UNKNOWN	18.53	1900	J
16.	UNKNOWN	18.81	5500	J
17.	UNKNOWN	19.71	1300	J
18.	UNKNOWN	20.87	7900	J
19.	UNKNOWN	22.54	9700	J

0000057

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7610

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 37 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	5200	U
111-44-4	bis(2-Chloroethyl)Ether	5200	U
95-57-8	2-Chlorophenol	5200	U
541-73-1	1,3-Dichlorobenzene	5200	U
106-46-7	1,4-Dichlorobenzene	5200	U
95-50-1	1,2-Dichlorobenzene	5200	U
95-48-7	2-Methylphenol	5200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5200	U
106-44-5	4-Methylphenol	5200	U
621-64-7	N-Nitroso-di-n-propylamine	5200	U
67-72-1	Hexachloroethane	5200	U
98-95-3	Nitrobenzene	5200	U
78-59-1	Isophorone	5200	U
88-75-5	2-Nitrophenol	5200	U
105-67-9	2,4-Dimethylphenol	5200	U
111-91-1	bis(2-Chloroethoxy)methane	5200	U
120-83-2	2,4-Dichlorophenol	5200	U
120-82-1	1,2,4-Trichlorobenzene	5200	U
91-20-3	Naphthalene	5200	U
106-47-8	4-Chloroaniline	5200	U
87-68-3	Hexachlorobutadiene	5200	U
59-50-7	4-Chloro-3-methylphenol	5200	U
91-57-6	2-Methylnaphthalene	5200	U
77-47-4	Hexachlorocyclopentadiene	5200	U
88-06-2	2,4,6-Trichlorophenol	5200	U
95-95-4	2,4,5-Trichlorophenol	13000	U
91-58-7	2-Chloronaphthalene	5200	U
88-74-4	2-Nitroaniline	13000	U
131-11-3	Dimethylphthalate	5200	U
208-96-8	Acenaphthylene	5200	U
606-20-2	2,6-Dinitrotoluene	1100	J
99-09-2	3-Nitroaniline	13000	U
83-32-9	Acenaphthene	5200	U

0000058

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7610

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 37 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	13000	U
100-02-7-----	4-Nitrophenol	13000	U
132-64-9-----	Dibenzofuran	5200	U
121-14-2-----	2,4-Dinitrotoluene	5200	U
84-66-2-----	Diethylphthalate	5200	U
7005-72-3-----	4-Chlorophenyl-phenylether	5200	U
86-73-7-----	Fluorene	5200	U
100-01-6-----	4-Nitroaniline	13000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	13000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5200	U
101-55-3-----	4-Bromophenyl-phenylether	5200	U
118-74-1-----	Hexachlorobenzene	5200	U
87-86-5-----	Pentachlorophenol	13000	U
85-01-8-----	Phenanthrene	580	J
120-12-7-----	Anthracene	5200	U
86-74-8-----	Carbazole	5200	U
84-74-2-----	Di-n-Butylphthalate	660	J
206-44-0-----	Fluoranthene	5200	U
129-00-0-----	Pyrene	5200	U
85-68-7-----	Butylbenzylphthalate	880	J
91-94-1-----	3,3'-Dichlorobenzidine	5200	U
56-55-3-----	Benzo(a)anthracene	5200	U
218-01-9-----	Chrysene	5200	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2300	BJ
117-84-0-----	Di-n-octylphthalate	630	J
205-99-2-----	Benzo(b)fluoranthene	5200	U
207-08-9-----	Benzo(k)fluoranthene	5200	U
50-32-8-----	Benzo(a)pyrene	5200	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	5200	U
53-70-3-----	Dibenz(a,h)anthracene	5200	U
191-24-2-----	Benzo(g,h,i)perylene	5200	U

0000059

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-5RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7610

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 37 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

Number TICs found: 19

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.76	11000	JAB
2.	UNKNOWN AROMATIC HYDROCARBON	9.96	2600	J
3.	UNKNOWN ALKENE	10.53	4700	J
4.	UNKNOWN	13.75	1300	J
5.	UNKNOWN	14.46	1400	J
6.	UNKNOWN	15.11	2500	J
7.	UNKNOWN	15.60	9100	J
8.	UNKNOWN AROMATIC HYDROCARBON	16.04	1400	J
9.	UNKNOWN	16.22	2100	J
10.	UNKNOWN	16.67	2000	J
11.	UNKNOWN	16.79	6200	J
12.	UNKNOWN	17.06	1500	J
13.	UNKNOWN	17.26	1600	J
14.	UNKNOWN ALKANE	17.42	3200	J
15.	UNKNOWN	17.91	1500	J
16.	UNKNOWN	18.50	2000	J
17.	UNKNOWN	18.77	5800	J
18.	UNKNOWN	20.03	1500	J
19.	UNKNOWN	20.84	7000	J

0000060

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-6

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7601

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	500	U
111-44-4	bis(2-Chloroethyl)Ether	500	U
95-57-8	2-Chlorophenol	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500	U
106-44-5	4-Methylphenol	500	U
621-64-7	N-Nitroso-di-n-propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethylphenol	500	U
111-91-1	bis(2-Chloroethoxy)methane	500	U
120-83-2	2,4-Dichlorophenol	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
91-20-3	Naphthalene	56	J
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
59-50-7	4-Chloro-3-methylphenol	500	U
91-57-6	2-Methylnaphthalene	500	U
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	2200	
208-96-8	Acenaphthylene	500	U
606-20-2	2,6-Dinitrotoluene	250	J
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	500	U

0000061

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-6

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7601

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	1200	U
100-02-7-----	4-Nitrophenol	1200	U
132-64-9-----	Dibenzofuran	52	J
121-14-2-----	2,4-Dinitrotoluene	500	U
84-66-2-----	Diethylphthalate	510	
7005-72-3-----	4-Chlorophenyl-phenylether	500	U
86-73-7-----	Fluorene	53	J
100-01-6-----	4-Nitroaniline	1200	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	500	U
101-55-3-----	4-Bromophenyl-phenylether	500	U
118-74-1-----	Hexachlorobenzene	500	U
87-86-5-----	Pentachlorophenol	1200	U
85-01-8-----	Phenanthrene	240	J
120-12-7-----	Anthracene	500	U
86-74-8-----	Carbazole	500	U
84-74-2-----	Di-n-Butylphthalate	120	J
206-44-0-----	Fluoranthene	170	J
129-00-0-----	Pyrene	170	J
85-68-7-----	Butylbenzylphthalate	300	J
91-94-1-----	3,3'-Dichlorobenzidine	500	U
56-55-3-----	Benzo(a)anthracene	500	U
218-01-9-----	Chrysene	80	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	510	B
117-84-0-----	Di-n-octylphthalate	500	U
205-99-2-----	Benzo(b)fluoranthene	500	U
207-08-9-----	Benzo(k)fluoranthene	500	U
50-32-8-----	Benzo(a)pyrene	500	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	500	U
53-70-3-----	Dibenz(a,h)anthracene	500	U
191-24-2-----	Benzo(g,h,i)perylene	500	U

0000062

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-6

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7601

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

Number TICs found: 21

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.81	1600	JAB
2.	UNKNOWN	7.95	220	J
3.	UNKNOWN ALKANE	9.30	320	J
4.	UNKNOWN	10.54	2300	J
5.	UNKNOWN	10.64	630	J
6.	UNKNOWN ALKANE	11.12	1100	J
7.	UNKNOWN ALKANE	11.25	470	J
8.	UNKNOWN ALKANE	11.51	500	J
9.	UNKNOWN ALKANE	11.85	170	J
10.	UNKNOWN	12.93	240	J
11.	UNKNOWN ALKANE	13.05	200	J
12.	UNKNOWN ALKANE	16.81	190	J
13.	UNKNOWN	17.95	300	J
14.	UNKNOWN AROMATIC	18.35	180	J
15.	UNKNOWN	19.89	130	J
16.	UNKNOWN ACID	21.19	600	J
17.	UNKNOWN ACID	22.62	780	J
18.	UNKNOWN ACID	23.45	2600	J
19.	UNKNOWN ALKANE	23.86	480	J
20.	UNKNOWN ALKANE	24.88	260	J
21.	UNKNOWN ACID	25.49	1500	J

0000063



1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-6RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7797

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	2000	U
111-44-4-----	bis(2-Chloroethyl)Ether	2000	U
95-57-8-----	2-Chlorophenol	2000	U
541-73-1-----	1,3-Dichlorobenzene	2000	U
106-46-7-----	1,4-Dichlorobenzene	2000	U
95-50-1-----	1,2-Dichlorobenzene	2000	U
95-48-7-----	2-Methylphenol	2000	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	2000	U
106-44-5-----	4-Methylphenol	2000	U
621-64-7-----	N-Nitroso-di-n-propylamine	2000	U
67-72-1-----	Hexachloroethane	2000	U
98-95-3-----	Nitrobenzene	2000	U
78-59-1-----	Isophorone	2000	U
88-75-5-----	2-Nitrophenol	2000	U
105-67-9-----	2,4-Dimethylphenol	2000	U
111-91-1-----	bis(2-Chloroethoxy)methane	2000	U
120-83-2-----	2,4-Dichlorophenol	2000	U
120-82-1-----	1,2,4-Trichlorobenzene	2000	U
91-20-3-----	Naphthalene	2000	U
106-47-8-----	4-Chloroaniline	2000	U
87-68-3-----	Hexachlorobutadiene	2000	U
59-50-7-----	4-Chloro-3-methylphenol	2000	U
91-57-6-----	2-Methylnaphthalene	2000	U
77-47-4-----	Hexachlorocyclopentadiene	2000	U
88-06-2-----	2,4,6-Trichlorophenol	2000	U
95-95-4-----	2,4,5-Trichlorophenol	4800	U
91-58-7-----	2-Chloronaphthalene	2000	U
88-74-4-----	2-Nitroaniline	4800	U
131-11-3-----	Dimethylphthalate	9300	
208-96-8-----	Acenaphthylene	2000	U
606-20-2-----	2,6-Dinitrotoluene	2000	U
99-09-2-----	3-Nitroaniline	4800	U
83-32-9-----	Acenaphthene	2000	U

0000064

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-6RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7797

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	4800	U
100-02-7-----	4-Nitrophenol	4800	U
132-64-9-----	Dibenzofuran	200	J
121-14-2-----	2,4-Dinitrotoluene	2000	U
84-66-2-----	Diethylphthalate	2500	
7005-72-3-----	4-Chlorophenyl-phenylether	2000	U
86-73-7-----	Fluorene	2000	U
100-01-6-----	4-Nitroaniline	4800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	4800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	2000	U
101-55-3-----	4-Bromophenyl-phenylether	2000	U
118-74-1-----	Hexachlorobenzene	2000	U
87-86-5-----	Pentachlorophenol	4800	U
85-01-8-----	Phenanthrene	540	J
120-12-7-----	Anthracene	2000	U
86-74-8-----	Carbazole	2000	U
84-74-2-----	Di-n-Butylphthalate	2000	U
206-44-0-----	Fluoranthene	340	J
129-00-0-----	Pyrene	2000	U
85-68-7-----	Butylbenzylphthalate	2000	U
91-94-1-----	3,3'-Dichlorobenzidine	2000	U
56-55-3-----	Benzo(a)anthracene	2000	U
218-01-9-----	Chrysene	2000	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2000	B
117-84-0-----	Di-n-octylphthalate	2000	U
205-99-2-----	Benzo(b)fluoranthene	2000	U
207-08-9-----	Benzo(k)fluoranthene	2000	U
50-32-8-----	Benzo(a)pyrene	2000	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3-----	Dibenz(a,h)anthracene	2000	U
191-24-2-----	Benzo(g,h,i)perylene	2000	U

0000065

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-6RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7797

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/09/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

Number TICs found: 21

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.66	7800	JAB
2.	UNKNOWN	7.80	1500	J
3.	UNKNOWN ALKANE	9.11	1100	J
4.	UNKNOWN	10.37	10000	J
5.	UNKNOWN	10.45	3800	J
6.	UNKNOWN ALKANE	10.94	5000	J
7.	UNKNOWN ALKANE	11.32	2300	J
8.	UNKNOWN ALKANE	12.86	820	J
9.	UNKNOWN	17.74	2100	J
10.	UNKNOWN ALKANE	20.30	840	J
11.	UNKNOWN ACID	20.97	2900	J
12.	UNKNOWN ACID	23.06	960	J
13.	UNKNOWN ACID	23.22	14000	J
14.	UNKNOWN ACID	25.26	13000	J
15.	UNKNOWN ALKANE	26.55	3900	J
16.	UNKNOWN ALKANE	27.63	4100	J
17.	UNKNOWN ALKANE	28.87	3700	J
18.	UNKNOWN ALKANE	30.37	4500	J
19.	UNKNOWN	34.35	13000	J
20.	UNKNOWN	40.47	9300	J
21.	UNKNOWN	47.71	4300	J

0000066

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-7

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854707

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7611

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 51 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	330	J
111-44-4	bis(2-Chloroethyl)Ether	1300	U
95-57-8	2-Chlorophenol	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
95-48-7	2-Methylphenol	1300	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1300	U
106-44-5	4-Methylphenol	1300	U
621-64-7	N-Nitroso-di-n-propylamine	1300	U
67-72-1	Hexachloroethane	1300	U
98-95-3	Nitrobenzene	1300	U
78-59-1	Isophorone	1300	U
88-75-5	2-Nitrophenol	1300	U
105-67-9	2,4-Dimethylphenol	1300	U
111-91-1	bis(2-Chloroethoxy)methane	1300	U
120-83-2	2,4-Dichlorophenol	1300	U
120-82-1	1,2,4-Trichlorobenzene	1300	U
91-20-3	Naphthalene	1300	U
106-47-8	4-Chloroaniline	1300	U
87-68-3	Hexachlorobutadiene	1300	U
59-50-7	4-Chloro-3-methylphenol	1300	U
91-57-6	2-Methylnaphthalene	1300	U
77-47-4	Hexachlorocyclopentadiene	1300	U
88-06-2	2,4,6-Trichlorophenol	1300	U
95-95-4	2,4,5-Trichlorophenol	3300	U
91-58-7	2-Chloronaphthalene	1300	U
88-74-4	2-Nitroaniline	3300	U
131-11-3	Dimethylphthalate	280	J
208-96-8	Acenaphthylene	1300	U
606-20-2	2,6-Dinitrotoluene	1200	J
99-09-2	3-Nitroaniline	3300	U
83-32-9	Acenaphthene	1300	U

0000067

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-7

Lab Name: NYTEST ENV INC Contract: 9320470Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_Matrix: (soil/water) SOIL Lab Sample ID: 1854707Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7611Level: (low/med) LOW Date Received: 10/14/93% Moisture: 51 decanted: (Y/N) N Date Extracted: 10/18/93Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93Injection Volume: 2.0 (uL) Dilution Factor: 2.0GPC Cleanup: (Y/N) Y pH: 7.2

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	3300	U
100-02-7-----	4-Nitrophenol	3300	U
132-64-9-----	Dibenzofuran	1300	U
121-14-2-----	2,4-Dinitrotoluene	1300	U
84-66-2-----	Diethylphthalate	150	J
7005-72-3-----	4-Chlorophenyl-phenylether	1300	U
86-73-7-----	Fluorene	1300	U
100-01-6-----	4-Nitroaniline	3300	U
534-52-1-----	4,6-Dinitro-2-methylphenol	3300	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1300	U
101-55-3-----	4-Bromophenyl-phenylether	1300	U
118-74-1-----	Hexachlorobenzene	1300	U
87-86-5-----	Pentachlorophenol	3300	U
85-01-8-----	Phenanthrene	410	J
120-12-7-----	Anthracene	1300	U
86-74-8-----	Carbazole	1300	U
84-74-2-----	Di-n-Butylphthalate	330	J
206-44-0-----	Fluoranthene	390	J
129-00-0-----	Pyrene	1300	U
85-68-7-----	Butylbenzylphthalate	810	J
91-94-1-----	3,3'-Dichlorobenzidine	1300	U
56-55-3-----	Benzo(a)anthracene	1300	U
218-01-9-----	Chrysene	1300	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	4300	B
117-84-0-----	Di-n-octylphthalate	190	J
205-99-2-----	Benzo(b)fluoranthene	1300	U
207-08-9-----	Benzo(k)fluoranthene	1300	U
50-32-8-----	Benzo(a)pyrene	1300	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	1300	U
53-70-3-----	Dibenz(a,h)anthracene	1300	U
191-24-2-----	Benzo(g,h,i)perylene	1300	U

0000068

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-7

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854707

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7611

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 51 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 21

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.77	5100	JAB
2.	UNKNOWN	10.40	4400	J
3.	UNKNOWN	10.64	50000	J
4.	UNKNOWN	12.16	7200	J
5.	UNKNOWN	12.65	2600	J
6.	UNKNOWN	12.91	9400	J
7.	UNKNOWN	16.78	6900	J
8.	UNKNOWN	18.32	4300	J
9.	UNKNOWN ALKANE	20.48	2600	J
10.	UNKNOWN ACID	21.19	5700	J
11.	UNKNOWN ALKANE	22.76	4200	J
12.	UNKNOWN ACID	23.41	4600	J
13.	UNKNOWN ALKANE	23.82	2800	J
14.	UNKNOWN	24.22	3000	J
15.	UNKNOWN ALKANE	24.84	2700	J
16.	UNKNOWN ALKANE	26.79	11000	J
17.	UNKNOWN ALKANE	27.20	4200	J
18.	UNKNOWN	27.93	5900	J
19.	UNKNOWN ALKANE	29.22	15000	J
20.	UNKNOWN ALKANE	30.79	20000	J
21.	UNKNOWN ALKANE	34.96	2700	J

0000069

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-8

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7603

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 32 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	1300	J
111-44-4	bis(2-Chloroethyl)Ether	1900	U
95-57-8	2-Chlorophenol	1900	U
541-73-1	1,3-Dichlorobenzene	1900	U
106-46-7	1,4-Dichlorobenzene	1900	U
95-50-1	1,2-Dichlorobenzene	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	bis(2-Chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	1900	U
91-20-3	Naphthalene	1200	J
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	480	J
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	4700	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	4700	U
131-11-3	Dimethylphthalate	1300	J
208-96-8	Acenaphthylene	760	J
606-20-2	2,6-Dinitrotoluene	2000	
99-09-2	3-Nitroaniline	4700	U
83-32-9	Acenaphthene	770	J

0000070

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-8

Lab Name: NYTEST ENV INC Contract: 9320470  
 Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Lab Sample ID: 1854708  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7603  
 Level: (low/med) LOW Date Received: 10/14/93  
 % Moisture: 32 decanted: (Y/N) N Date Extracted: 10/18/93  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93  
 Injection Volume: 2.0 (uL) Dilution Factor: 4.0  
 GPC cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	4700	U
100-02-7-----	4-Nitrophenol	4700	U
132-64-9-----	Dibenzofuran	540	J
121-14-2-----	2,4-Dinitrotoluene	1900	U
84-66-2-----	Diethylphthalate	350	J
7005-72-3-----	4-Chlorophenyl-phenylether	1900	U
86-73-7-----	Fluorene	920	J
100-01-6-----	4-Nitroaniline	4700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	4700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1900	U
101-55-3-----	4-Bromophenyl-phenylether	1900	U
118-74-1-----	Hexachlorobenzene	1900	U
87-86-5-----	Pentachlorophenol	4700	U
85-01-8-----	Phenanthrene	5800	
120-12-7-----	Anthracene	1500	J
86-74-8-----	Carbazole	1900	U
84-74-2-----	Di-n-Butylphthalate	470	J
206-44-0-----	Fluoranthene	6400	
129-00-0-----	Pyrene	7600	
85-68-7-----	Butylbenzylphthalate	280	J
91-94-1-----	3,3'-Dichlorobenzidine	1900	U
56-55-3-----	Benzo(a)anthracene	3700	
218-01-9-----	Chrysene	4800	
117-81-7-----	bis(2-Ethylhexyl)phthalate	3600	B
117-84-0-----	Di-n-octylphthalate	1900	U
205-99-2-----	Benzo(b)fluoranthene	3200	
207-08-9-----	Benzo(k)fluoranthene	3200	
50-32-8-----	Benzo(a)pyrene	3700	
193-39-5-----	Indeno(1,2,3-cd)pyrene	2600	
53-70-3-----	Dibenz(a,h)anthracene	1900	U
191-24-2-----	Benzo(g,h,i)perylene	2500	

0000071



1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-8

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7603

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 32 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

Number TICs found: 21 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.85	13000	JAB
2.	UNKNOWN	10.49	4100	J
3.	UNKNOWN	10.59	20000	J
4.	UNKNOWN	10.68	27000	J
5.	UNKNOWN	12.99	1700	J
6.	UNKNOWN ACID	16.05	1300	J
7.	UNKNOWN ALKANE	16.84	7500	J
8.	UNKNOWN	17.28	1700	J
9.	UNKNOWN	17.96	3500	J
10.	UNKNOWN	19.99	1300	J
11.	UNKNOWN ALKANE	20.52	1600	J
12.	UNKNOWN	20.60	2000	J
13.	UNKNOWN ACID	21.21	1600	J
14.	UNKNOWN ACID	23.45	3900	J
15.	UNKNOWN ACID	23.45	2500	J
16.	UNKNOWN ALKANE	26.81	3700	J
17.	UNKNOWN ALKANE	27.93	4000	J
18.	UNKNOWN ALKANE	29.24	3900	J
19.	UNKNOWN ALKANE	30.81	6600	J
20.	UNKNOWN	34.99	5400	J
21.	UNKNOWN	41.42	3900	J

0000072

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-8RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7612

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 32 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	1300	J
111-44-4	bis(2-Chloroethyl)Ether	1900	U
95-57-8	2-Chlorophenol	1900	U
541-73-1	1,3-Dichlorobenzene	1900	U
106-46-7	1,4-Dichlorobenzene	1900	U
95-50-1	1,2-Dichlorobenzene	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	bis(2-Chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	1900	U
91-20-3	Naphthalene	1400	J
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	470	J
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	4700	U
91-58-7	2-chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	4700	U
131-11-3	Dimethylphthalate	1100	J
208-96-8	Acenaphthylene	580	J
606-20-2	2,6-Dinitrotoluene	2200	
99-09-2	3-Nitroaniline	4700	U
83-32-9	Acenaphthene	660	J

0000073

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-8RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7612

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 32 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	4700	U
100-02-7-----	4-Nitrophenol	4700	U
132-64-9-----	Dibenzofuran	460	J
121-14-2-----	2,4-Dinitrotoluene	1900	U
84-66-2-----	Diethylphthalate	310	J
7005-72-3-----	4-Chlorophenyl-phenylether	1900	U
86-73-7-----	Fluorene	860	J
100-01-6-----	4-Nitroaniline	4700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	4700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	1900	U
101-55-3-----	4-Bromophenyl-phenylether	1900	U
118-74-1-----	Hexachlorobenzene	1900	U
87-86-5-----	Pentachlorophenol	4700	U
85-01-8-----	Phenanthrene	6300	
120-12-7-----	Anthracene	1200	J
86-74-8-----	Carbazole	1900	U
84-74-2-----	Di-n-Butylphthalate	470	J
206-44-0-----	Fluoranthene	6800	
129-00-0-----	Pyrene	7700	
85-68-7-----	Butylbenzylphthalate	240	J
91-94-1-----	3,3'-Dichlorobenzidine	1900	U
56-55-3-----	Benzo(a)anthracene	3700	
218-01-9-----	Chrysene	4800	
117-81-7-----	bis(2-Ethylhexyl)phthalate	3900	B
117-84-0-----	Di-n-octylphthalate	1900	U
205-99-2-----	Benzo(b)fluoranthene	4000	
207-08-9-----	Benzo(k)fluoranthene	3400	
50-32-8-----	Benzo(a)pyrene	3700	
193-39-5-----	Indeno(1,2,3-cd)pyrene	2800	
53-70-3-----	Dibenz(a,h)anthracene	1900	U
191-24-2-----	Benzo(g,h,i)perylene	2600	

0000074

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-8RE

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7612

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 32 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/28/93

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

Number TICs found: 21 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.80	15000	JAB
2.	UNKNOWN	9.97	7000	J
3.	UNKNOWN	10.47	4400	J
4.	UNKNOWN	10.58	18000	J
5.	UNKNOWN	10.65	19000	J
6.	UNKNOWN	16.81	7200	J
7.	UNKNOWN	17.18	1600	J
8.	UNKNOWN	17.28	1800	J
9.	UNKNOWN	17.95	3100	J
10.	UNKNOWN	20.59	2300	J
11.	UNKNOWN	21.20	1800	J
12.	UNKNOWN ACID	22.79	1600	J
13.	UNKNOWN ACID	23.44	4100	J
14.	UNKNOWN ACID	25.48	2600	J
15.	UNKNOWN ALKANE	26.80	15000	J
16.	UNKNOWN ALKANE	27.92	14000	J
17.	UNKNOWN ALKANE	29.23	17000	J
18.	UNKNOWN ALKANE	30.79	27000	J
19.	UNKNOWN ALKANE	32.70	14000	J
20.	UNKNOWN	34.94	25000	J
21.	UNKNOWN	41.37	18000	J

0000075

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

S-9

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7625

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	3300	U
111-44-4-----	bis(2-Chloroethyl)Ether	3300	U
95-57-8-----	2-Chlorophenol	3300	U
541-73-1-----	1,3-Dichlorobenzene	3300	U
106-46-7-----	1,4-Dichlorobenzene	3300	U
95-50-1-----	1,2-Dichlorobenzene	3300	U
95-48-7-----	2-Methylphenol	3300	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	3300	U
106-44-5-----	4-Methylphenol	3300	U
621-64-7-----	N-Nitroso-di-n-propylamine	3300	U
67-72-1-----	Hexachloroethane	3300	U
98-95-3-----	Nitrobenzene	3300	U
78-59-1-----	Isophorone	3300	U
88-75-5-----	2-Nitrophenol	3300	U
105-67-9-----	2,4-Dimethylphenol	3300	U
111-91-1-----	bis(2-Chloroethoxy)methane	3300	U
120-83-2-----	2,4-Dichlorophenol	3300	U
120-82-1-----	1,2,4-Trichlorobenzene	3300	U
91-20-3-----	Naphthalene	810	J
106-47-8-----	4-Chloroaniline	3300	U
87-68-3-----	Hexachlorobutadiene	3300	U
59-50-7-----	4-Chloro-3-methylphenol	3300	U
91-57-6-----	2-Methylnaphthalene	590	J
77-47-4-----	Hexachlorocyclopentadiene	3300	U
88-06-2-----	2,4,6-Trichlorophenol	3300	U
95-95-4-----	2,4,5-Trichlorophenol	8100	U
91-58-7-----	2-Chloronaphthalene	3300	U
88-74-4-----	2-Nitroaniline	8100	U
131-11-3-----	Dimethylphthalate	3300	U
208-96-8-----	Acenaphthylene	660	J
606-20-2-----	2,6-Dinitrotoluene	3300	U
99-09-2-----	3-Nitroaniline	8100	U
83-32-9-----	Acenaphthene	2400	J

0000076

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-9

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7625

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	8100	U
100-02-7-----	4-Nitrophenol	8100	U
132-64-9-----	Dibenzofuran	1600	J
121-14-2-----	2,4-Dinitrotoluene	3300	U
84-66-2-----	Diethylphthalate	3300	U
7005-72-3-----	4-Chlorophenyl-phenylether	3300	U
86-73-7-----	Fluorene	2900	J
100-01-6-----	4-Nitroaniline	8100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	8100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	3300	U
101-55-3-----	4-Bromophenyl-phenylether	3300	U
118-74-1-----	Hexachlorobenzene	3300	U
87-86-5-----	Pentachlorophenol	8100	U
85-01-8-----	Phenanthrene	17000	
120-12-7-----	Anthracene	4200	
86-74-8-----	Carbazole	1400	J
84-74-2-----	Di-n-Butylphthalate	3300	U
206-44-0-----	Fluoranthene	19000	
129-00-0-----	Pyrene	13000	
85-68-7-----	Butylbenzylphthalate	3300	U
91-94-1-----	3,3'-Dichlorobenzidine	3300	U
56-55-3-----	Benzo(a)anthracene	8800	
218-01-9-----	Chrysene	8300	
117-81-7-----	bis(2-Ethylhexyl)phthalate	1500	BJ
117-84-0-----	Di-n-octylphthalate	3300	U
205-99-2-----	Benzo(b)fluoranthene	6200	
207-08-9-----	Benzo(k)fluoranthene	4100	
50-32-8-----	Benzo(a)pyrene	6500	
193-39-5-----	Indeno(1,2,3-cd)pyrene	3300	J
53-70-3-----	Dibenz(a,h)anthracene	3300	U
191-24-2-----	Benzo(g,h,i)perylene	2800	J

0000077

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-9

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F7625

Level: (low/med) LOW Date Received: 10/14/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 10/18/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

Number TICs found: 17

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.76	22000	JAB
2.	UNKNOWN	10.50	3100	J
3.	UNKNOWN AROMATIC HYDROCARBON	17.55	930	J
4.	UNKNOWN	20.02	950	J
5.	UNKNOWN AROMATIC HYDROCARBON	23.37	1100	J
6.	UNKNOWN AROMATIC HYDROCARBON	23.43	1000	J
7.	UNKNOWN AROMATIC HYDROCARBON	24.85	740	J
8.	UNKNOWN AROMATIC HYDROCARBON	26.47	2200	J
9.	UNKNOWN AROMATIC HYDROCARBON	26.79	3900	J
10.	UNKNOWN AROMATIC HYDROCARBON	27.00	1200	J
11.	UNKNOWN AROMATIC HYDROCARBON	27.12	2200	J
12.	UNKNOWN AROMATIC HYDROCARBON	27.51	970	J
13.	UNKNOWN	28.00	1300	J
14.	UNKNOWN	28.50	1200	J
15.	UNKNOWN	28.93	700	J
16.	UNKNOWN AROMATIC HYDROCARBON	29.05	720	J
17.	UNKNOWN	29.28	950	J

0000078

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-1

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 13 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/28/93

Injection Volume: 1.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	3.9	U
319-85-7	beta-BHC	3.9	U
319-86-8	delta-BHC	3.9	U
58-89-9	gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.6	U
72-55-9	4,4'-DDE	8.9	
72-20-8	Endrin	7.6	U
33213-65-9	Endosulfan II	7.6	U
72-54-8	4,4'-DDD	12	P
1031-07-8	Endosulfan sulfate	7.6	U
50-29-3	4,4'-DDT	7.6	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin ketone	7.6	U
7421-93-4	Endrin aldehyde	28	P
5103-71-9	alpha-Chlordane	3.9	U
5103-74-2	gamma-Chlordane	3.9	U
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor-1016	76	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	76	U
53469-21-9	Aroclor-1242	76	U
12672-29-6	Aroclor-1248	76	U
11097-69-1	Aroclor-1254	76	U
11096-82-5	Aroclor-1260	170	

0000079

FORM I PEST

3/90

ATTACHMENT 12



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-10

Lab Name: NYTEST ENV INC

Contract: 9320470

Lab Code: NYTEST

Case No.: 18547

SAS No.: \_\_\_\_\_

SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL

Lab Sample ID: 1854710

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: \_\_\_\_\_

% Moisture: 18 decanted: (Y/N) N

Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 10/30/93

Injection Volume: 1.00 (uL)

Dilution Factor: 3.00

GPC Cleanup: (Y/N) Y

pH: 7.0

Sulfur Cleanup: (Y/N) Y

CAS NO.

COMPOUND

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG.

Q

319-84-6-----	alpha-BHC	6.2	U
319-85-7-----	beta-BHC	6.2	U
319-86-8-----	delta-BHC	6.2	U
58-89-9-----	gamma-BHC (Lindane)	6.2	U
76-44-8-----	Heptachlor	6.2	U
309-00-2-----	Aldrin	6.2	U
1024-57-3-----	Heptachlor epoxide	6.2	U
959-98-8-----	Endosulfan I	6.2	U
60-57-1-----	Dieldrin	13	P
72-55-9-----	4,4'-DDE	88	P
72-20-8-----	Endrin	12	U
33213-65-9-----	Endosulfan II	12	U
72-54-8-----	4,4'-DDD	30	
1031-07-8-----	Endosulfan sulfate	12	U
50-29-3-----	4,4'-DDT	13	P
72-43-5-----	Methoxychlor	62	U
53494-70-5-----	Endrin ketone	12	U
7421-93-4-----	Endrin aldehyde	12	JP
5103-71-9-----	alpha-Chlordane	6.2	U
5103-74-2-----	gamma-Chlordane	6.2	U
8001-35-2-----	Toxaphene	620	U
12674-11-2-----	Aroclor-1016	120	U
11104-28-2-----	Aroclor-1221	250	U
11141-16-5-----	Aroclor-1232	120	U
53469-21-9-----	Aroclor-1242	120	U
12672-29-6-----	Aroclor-1248	120	U
11097-69-1-----	Aroclor-1254	120	U
11096-82-5-----	Aroclor-1260	170	P

0000080

FORM I PEST

3/90

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-2

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854702

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 14 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/28/93

Injection Volume: 1.00 (uL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6	alpha-BHC	7.9	U
319-85-7	beta-BHC	7.9	U
319-86-8	delta-BHC	7.9	U
58-89-9	gamma-BHC (Lindane)	7.9	U
76-44-8	Heptachlor	7.9	U
309-00-2	Aldrin	7.9	U
1024-57-3	Heptachlor epoxide	7.9	U
959-98-8	Endosulfan I	7.9	U
60-57-1	Dieldrin	15	U
72-55-9	4,4'-DDE	15	U
72-20-8	Endrin	15	U
33213-65-9	Endosulfan II	15	U
72-54-8	4,4'-DDD	18	P
1031-07-8	Endosulfan sulfate	15	U
50-29-3	4,4'-DDT	15	U
72-43-5	Methoxychlor	79	U
53494-70-5	Endrin ketone	15	U
7421-93-4	Endrin aldehyde	24	P
5103-71-9	alpha-Chlordane	7.9	U
5103-74-2	gamma-Chlordane	7.9	U
8001-35-2	Toxaphene	790	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	310	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	150	U
11096-82-5	Aroclor-1260	460	

0000081

FORM I PEST

3/90

ATTACHMENT 1

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 24 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/28/93

Injection Volume: 1.00 (uL) Dilution Factor: 6.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	13	U
319-85-7	beta-BHC	13	U
319-86-8	delta-BHC	13	U
58-89-9	gamma-BHC (Lindane)	13	U
76-44-8	Heptachlor	13	U
309-00-2	Aldrin	13	U
1024-57-3	Heptachlor epoxide	13	U
959-98-8	Endosulfan I	13	U
60-57-1	Dieldrin	26	U
72-55-9	4,4'-DDE	26	U
72-20-8	Endrin	26	U
33213-65-9	Endosulfan II	26	U
72-54-8	4,4'-DDD	26	U
1031-07-8	Endosulfan sulfate	26	U
50-29-3	4,4'-DDT	26	U
72-43-5	Methoxychlor	130	U
53494-70-5	Endrin ketone	26	U
7421-93-4	Endrin aldehyde	26	U
5103-71-9	alpha-Chlordane	13	U
5103-74-2	gamma-Chlordane	13	U
8001-35-2	Toxaphene	1300	U
12674-11-2	Aroclor-1016	260	U
11104-28-2	Aroclor-1221	530	U
11141-16-5	Aroclor-1232	260	U
53469-21-9	Aroclor-1242	260	U
12672-29-6	Aroclor-1248	260	U
11097-69-1	Aroclor-1254	260	U
11096-82-5	Aroclor-1260	240	J

ID  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-4

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854704

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 36 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 6.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	16	U
319-85-7	beta-BHC	16	U
319-86-8	delta-BHC	16	U
58-89-9	gamma-BHC (Lindane)	16	U
76-44-8	Heptachlor	16	U
309-00-2	Aldrin	16	U
1024-57-3	Heptachlor epoxide	16	U
959-98-8	Endosulfan I	16	U
60-57-1	Dieldrin	31	P
72-55-9	4,4'-DDE	19	J
72-20-8	Endrin	31	U
33213-65-9	Endosulfan II	31	U
72-54-8	4,4'-DDD	31	U
1031-07-8	Endosulfan sulfate	31	U
50-29-3	4,4'-DDT	78	P
72-43-5	Methoxychlor	160	U
53494-70-5	Endrin ketone	31	U
7421-93-4	Endrin aldehyde	35	P
5103-71-9	alpha-Chlordane	16	U
5103-74-2	gamma-Chlordane	16	U
8001-35-2	Toxaphene	1600	U
12674-11-2	Aroclor-1016	310	U
11104-28-2	Aroclor-1221	630	U
11141-16-5	Aroclor-1232	310	U
53469-21-9	Aroclor-1242	310	U
12672-29-6	Aroclor-1248	310	U
11097-69-1	Aroclor-1254	310	U
11096-82-5	Aroclor-1260	270	J

0000083

FORM I PEST

3/90

ATTACHMENT M

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 37 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	50 P
319-85-7	beta-BHC	25 JP
319-86-8	delta-BHC	18 JP
58-89-9	gamma-BHC (Lindane)	27 U
76-44-8	Heptachlor	27 U
309-00-2	Aldrin	27 U
1024-57-3	Heptachlor epoxide	27 U
959-98-8	Endosulfan I	27 U
60-57-1	Dieldrin	52 U
72-55-9	4,4'-DDE	52 U
72-20-8	Endrin	52 U
33213-65-9	Endosulfan II	52 U
72-54-8	4,4'-DDD	52 U
1031-07-8	Endosulfan sulfate	52 U
50-29-3	4,4'-DDT	60
72-43-5	Methoxychlor	270 U
53494-70-5	Endrin ketone	52 U
7421-93-4	Endrin aldehyde	77
5103-71-9	alpha-Chlordane	27 U
5103-74-2	gamma-Chlordane	27 U
8001-35-2	Toxaphene	2700 U
12674-11-2	Aroclor-1016	520 U
11104-28-2	Aroclor-1221	1100 U
11141-16-5	Aroclor-1232	520 U
53469-21-9	Aroclor-1242	520 U
12672-29-6	Aroclor-1248	520 U
11097-69-1	Aroclor-1254	520 U
11096-82-5	Aroclor-1260	520 U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-6

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 34 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/05/93

Injection Volume: 1.00 (uL) Dilution Factor: 3.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

319-84-6-----alpha-BHC	7.7	U
319-85-7-----beta-BHC	7.7	U
319-86-8-----delta-BHC	7.7	U
58-89-9-----gamma-BHC (Lindane)	7.7	U
76-44-8-----Heptachlor	7.7	U
309-00-2-----Aldrin	7.7	U
1024-57-3-----Heptachlor epoxide	7.7	U
959-98-8-----Endosulfan I	7.7	U
60-57-1-----Dieldrin	16	P
72-55-9-----4,4'-DDE	15	U
72-20-8-----Endrin	15	U
33213-65-9-----Endosulfan II	15	U
72-54-8-----4,4'-DDD	25	P
1031-07-8-----Endosulfan sulfate	15	U
50-29-3-----4,4'-DDT	52	P
72-43-5-----Methoxychlor	77	U
53494-70-5-----Endrin ketone	15	U
7421-36-3-----Endrin aldehyde	22	P
5103-71-9-----alpha-Chlordane	7.7	U
5103-74-2-----gamma-Chlordane	7.7	U
8001-35-2-----Toxaphene	770	U
12674-11-2-----Aroclor-1016	150	U
11104-28-2-----Aroclor-1221	300	U
11141-16-5-----Aroclor-1232	150	U
53469-21-9-----Aroclor-1242	150	U
12672-29-6-----Aroclor-1248	150	U
11097-69-1-----Aroclor-1254	150	U
11096-82-5-----Aroclor-1260	200	

0000085

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-7

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854707

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 51 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.,	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6-----	alpha-BHC	35	U
319-85-7-----	beta-BHC	35	U
319-86-8-----	delta-BHC	35	U
58-89-9-----	gamma-BHC (Lindane)	35	U
76-44-8-----	Heptachlor	35	U
309-00-2-----	Aldrin	35	U
1024-57-3-----	Heptachlor epoxide	35	U
959-98-8-----	Endosulfan I	40	
60-57-1-----	Dieldrin	67	U
72-55-9-----	4,4'-DDE	67	U
72-20-8-----	Endrin	67	U
33213-65-9-----	Endosulfan II	67	U
72-54-8-----	4,4'-DDD	67	U
1031-07-8-----	Endosulfan sulfate	67	U
50-29-3-----	4,4'-DDT	210	P
72-43-5-----	Methoxychlor	350	U
53494-70-5-----	Endrin ketone	67	U
7421-93-4-----	Endrin aldehyde	390	
5103-71-9-----	alpha-Chlordane	35	U
5103-74-2-----	gamma-Chlordane	35	U
8001-35-2-----	Toxaphene	3500	U
12674-11-2-----	Aroclor-1016	670	U
11104-28-2-----	Aroclor-1221	1400	U
11141-16-5-----	Aroclor-1232	670	U
53469-21-9-----	Aroclor-1242	670	U
12672-29-6-----	Aroclor-1248	670	U
11097-69-1-----	Aroclor-1254	670	U
11096-82-5-----	Aroclor-1260	670	U

0000086

FORM I PEST

3/90

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-8

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 32 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 3.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	7.5	U
319-85-7	beta-BHC	7.5	U
319-86-8	delta-BHC	7.5	U
58-89-9	gamma-BHC (Lindane)	7.5	U
76-44-8	Heptachlor	7.5	U
309-00-2	Aldrin	7.5	U
1024-57-3	Heptachlor epoxide	7.5	U
959-98-8	Endosulfan I	21	
60-57-1	Dieldrin	15	U
72-55-9	4,4'-DDE	15	U
72-20-8	Endrin	15	U
33213-65-9	Endosulfan II	15	U
72-54-8	4,4'-DDD	15	U
1031-07-8	Endosulfan sulfate	15	U
50-29-3	4,4'-DDT	12	JP
72-43-5	Methoxychlor	75	U
53494-70-5	Endrin ketone	15	U
7421-93-4	Endrin aldehyde	13	JP
5103-71-9	alpha-Chlordane	7.5	U
5103-74-2	gamma-Chlordane	7.5	U
8001-35-2	Toxaphene	750	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	300	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	150	U
11096-82-5	Aroclor-1260	150	U



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-9

Lab Name: NYTEST ENV INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 1854709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 21 decanted: (Y/N) N Date Received: 10/14/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/15/93

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 3.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6	alpha-BHC	6.5	U
319-85-7	beta-BHC	6.5	U
319-86-8	delta-BHC	6.5	U
58-89-9	gamma-BHC (Lindane)	6.5	U
76-44-8	Heptachlor	6.5	U
309-00-2	Aldrin	6.5	U
1024-57-3	Heptachlor epoxide	6.5	U
959-98-8	Endosulfan I	6.5	U
60-57-1	Dieldrin	13	U
72-55-9	4,4'-DDE	13	U
72-20-8	Endrin	12	JP
33213-65-9	Endosulfan II	13	U
72-54-8	4,4'-DDD	13	U
1031-07-8	Endosulfan sulfate	13	U
50-29-3	4,4'-DDT	12	JP
72-43-5	Methoxychlor	65	U
53494-70-5	Endrin ketone	13	U
7421-93-4	Endrin aldehyde	21	P
5103-71-9	alpha-Chlordane	6.5	U
5103-74-2	gamma-Chlordane	6.5	U
8001-35-2	Toxaphene	650	U
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	250	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	130	U
12672-29-6	Aroclor-1248	130	U
11097-69-1	Aroclor-1254	130	U
11096-82-5	Aroclor-1260	130	U

## INORGANIC ANALYSES DATA SHEET

S-1XXX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854701

Level (low/med): LOW Date Received: 10/14/93

% Solids: 87.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2280		*	P
7440-36-0	Antimony	22.5		*	P
7440-38-2	Arsenic	8.2		*	F
7440-39-3	Barium	46.5		*	P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	0.83	U	N*	P
7440-70-2	Calcium	3690			P
7440-47-3	Chromium	13.5			P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	39.1			P
7439-89-6	Iron	7310			P
7439-92-1	Lead	96.4		N	P
7439-95-4	Magnesium	981	B		P
7439-96-5	Manganese	52.0		*	P
7439-97-6	Mercury	1.0			CV
7440-02-0	Nickel	4.1	U		P
7440-09-7	Potassium	399	U		P
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	1.6	B		P
7440-23-5	Sodium	46.1	B		P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	13.1			P
7440-66-6	Zinc	97.7			P
5955-70-0	Cyanide	0.66	U		AS

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: P. YELLOW Clarity After: CLEAR Artifacts:

Comments:

S-1

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S-10XX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854710

Level (low/med): LOW Date Received: 10/14/93

% Solids: 82.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2670		*	P
7440-36-0	Antimony	8.8	B	*	P
7440-38-2	Arsenic	4.2		*	F
7440-39-3	Barium	46.6		*	P
7440-41-7	Beryllium	0.30	B		P
7440-43-9	Cadmium	1.0	B	N*	P
7440-70-2	Calcium	4050			P
7440-47-3	Chromium	17.5			P
7440-48-4	Cobalt	2.2	U		P
7440-50-8	Copper	42.9			P
7439-89-6	Iron	7560			P
7439-92-1	Lead	116		N	P
7439-95-4	Magnesium	1930			P
7439-96-5	Manganese	54.1		*	P
7439-97-6	Mercury	0.54			CV
7440-02-0	Nickel	4.5	U		P
7440-09-7	Potassium	458	B		P
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	0.89	U		P
7440-23-5	Sodium	36.0	B		P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	13.7			P
7440-66-6	Zinc	109			P
5955-70-0	Cyanide	0.69	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: P. YELLOW Clarity After: CLEAR Artifacts:

Comments:

S-10

## U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S-2XXX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854702

Level (low/med): LOW Date Received: 10/14/93

% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3490		*	P
7440-36-0	Antimony	50.6		*	P
7440-38-2	Arsenic	4.2		*	F
7440-39-3	Barium	48.7		*	P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.92	U	N*	P
7440-70-2	Calcium	7840			P
7440-47-3	Chromium	19.0			P
7440-48-4	Cobalt	3.3	B		P
7440-50-8	Copper	37.8			P
7439-89-6	Iron	9770			P
7439-92-1	Lead	130		N	P
7439-95-4	Magnesium	4470			P
7439-96-5	Manganese	79.6		*	P
7439-97-6	Mercury	0.55			CV
7440-02-0	Nickel	7.0	B		P
7440-09-7	Potassium	546	B		P
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	1.2	B		P
7440-23-5	Sodium	34.8	B		P
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium	21.7			P
7440-66-6	Zinc	138			P
5955-70-0	Cyanide	0.44	U		AS

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: P. YELLOW Clarity After: CLEAR Artifacts:

Comments:

S-2

FORM I - IN

ILMO2.1

0000091

## U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S-3XXX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854703

Level (low/med): LOW Date Received: 10/14/93

% Solids: 76.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2390		*	P
7440-36-0	Antimony	217		*	P
7440-38-2	Arsenic	4.9		*	F
7440-39-3	Barium	81.1		*	P
7440-41-7	Beryllium	0.25	U		P
7440-43-9	Cadmium	1.0	U	N*	P
7440-70-2	Calcium	1630			P
7440-47-3	Chromium	140			P
7440-48-4	Cobalt	3.6	B		P
7440-50-8	Copper	49.6			P
7439-89-6	Iron	21700			P
7439-92-1	Lead	279		N	P
7439-95-4	Magnesium	1090	B		P
7439-96-5	Manganese	88.0		*	P
7439-97-6	Mercury	0.78			CV
7440-02-0	Nickel	53.5			P
7440-09-7	Potassium	491	U		P
7782-49-2	Selenium	1.2	U		F
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	138	B		P
7440-28-0	Thallium	1.2	U		F
7440-62-2	Vanadium	16.6			P
7440-66-6	Zinc	132			P
5955-70-0	Cyanide	0.62	U		AS

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: P. YELLOW Clarity After: CLEAR Artifacts:

Comments:

S-3

FORM I - IN

ILMO2.1

0000092

ATTACHMENT 2 95

## INORGANIC ANALYSES DATA SHEET

S-4XXX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854704

Level (low/med): LOW Date Received: 10/14/93

% Solids: 64.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3110		*	P
7440-36-0	Antimony	570		*	P
7440-38-2	Arsenic	8.4		*	F
7440-39-3	Barium	88.8		*	P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	1.1	U	N*	P
7440-70-2	Calcium	8630			P
7440-47-3	Chromium	117			P
7440-48-4	Cobalt	14.2	B		P
7440-50-8	Copper	247			P
7439-89-6	Iron	94700			P
7439-92-1	Lead	788		N	P
7439-95-4	Magnesium	8610			P
7439-96-5	Manganese	441		*	P
7439-97-6	Mercury	0.26			CV
7440-02-0	Nickel	173			P
7440-09-7	Potassium	550	U		P
7782-49-2	Selenium	1.4	U	S	F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	836	B		P
7440-28-0	Thallium	1.4	U		F
7440-62-2	Vanadium	30.3			P
7440-66-6	Zinc	7300			P
5955-70-0	Cyanide	0.65	U		AS

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

## Comments:

S-4 IRON AT A 4X DILUTION

## INORGANIC ANALYSES DATA SHEET

S-5XXX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854705

Level (low/med): LOW Date Received: 10/14/93

% Solids: 62.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9030		*	P
7440-36-0	Antimony	827		*	P
7440-38-2	Arsenic	8.1		*	F
7440-39-3	Barium	336		*	P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	4.6		N*	P
7440-70-2	Calcium	6860			P
7440-47-3	Chromium	52.3			P
7440-48-4	Cobalt	12.0	B		P
7440-50-8	Copper	823			P
7439-89-6	Iron	39300			P
7439-92-1	Lead	500		N	P
7439-95-4	Magnesium	5680			P
7439-96-5	Manganese	305		*	P
7439-97-6	Mercury	1.0			CV
7440-02-0	Nickel	35.7			P
7440-09-7	Potassium	1130	B		P
7782-49-2	Selenium	1.6	U		F
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	188	B		P
7440-28-0	Thallium	1.6	U		F
7440-62-2	Vanadium	37.9			P
7440-66-6	Zinc	1990			P
5955-70-0	Cyanide	0.68	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: P. YELLOW Clarity After: CLEAR Artifacts:

Comments:

S-5

## U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S-6XXX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854706

Level (low/med): LOW Date Received: 10/14/93

% Solids: 65.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2890		*	P
7440-36-0	Antimony	726		*	P
7440-38-2	Arsenic	13.5		*	F
7440-39-3	Barium	298		*	P
7440-41-7	Beryllium	0.28	U		P
7440-43-9	Cadmium	42.0		N*	P
7440-70-2	Calcium	5440			P
7440-47-3	Chromium	64.0			P
7440-48-4	Cobalt	25.0			P
7440-50-8	Copper	323			P
7439-89-6	Iron	123000			P
7439-92-1	Lead	3810		N	P
7439-95-4	Magnesium	1530			P
7439-96-5	Manganese	776		*	P
7439-97-6	Mercury	1.7			CV
7440-02-0	Nickel	97.2			P
7440-09-7	Potassium	542	U		P
7782-49-2	Selenium	1.4	U		F
7440-22-4	Silver	1.4	B		P
7440-23-5	Sodium	91.6	B		P
7440-28-0	Thallium	1.4	U		F
7440-62-2	Vanadium	42.7			P
7440-66-6	Zinc	2510			P
5955-70-0	Cyanide	0.83	U		AS

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: P. YELLOW Clarity After: CLEAR Artifacts:

## Comments:

S-6 IRON AT A 4X DILUTION

FORM I - IN

ILMO2.1

0000095

APPROVED



## U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S-7XXX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854707

Level (low/med): LOW Date Received: 10/14/93

% Solids: 48.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1370		*	P
7440-36-0	Antimony	130		*	P
7440-38-2	Arsenic	2.6	B	*	F
7440-39-3	Barium	34.5	B	*	P
7440-41-7	Beryllium	0.36	U		P
7440-43-9	Cadmium	4.0		N*	P
7440-70-2	Calcium	15500			P
7440-47-3	Chromium	17.8			P
7440-48-4	Cobalt	3.6	U		P
7440-50-8	Copper	39.4			P
7439-89-6	Iron	7470			P
7439-92-1	Lead	115		N	P
7439-95-4	Magnesium	423	B		P
7439-96-5	Manganese	61.6		*	P
7439-97-6	Mercury	0.39			CV
7440-02-0	Nickel	12.0	B		P
7440-09-7	Potassium	694	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	1.4	U		P
7440-23-5	Sodium	118	B		P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	10.8	B		P
7440-66-6	Zinc	414			P
5955-70-0	Cyanide	0.91	U		AS

Color Before: GRAY Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

S-7

FORM I - IN

ILMO2.1

0000096

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S-8XXX

Lab Name: NYTEST\_ENV\_INC \_\_\_\_\_ Contract: 9320470 \_\_\_\_\_

Lab Code: NYTEST Case No.: 18547\_ SAS No.: \_\_\_\_\_ SDG No.: 450\_

Matrix (soil/water): SOIL\_ Lab Sample ID: 854708\_

Level (low/med): LOW\_ Date Received: 10/14/93

% Solids: \_67.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7140		*	P
7440-36-0	Antimony	465		*	P
7440-38-2	Arsenic	21.0		*	F
7440-39-3	Barium	483		*	P
7440-41-7	Beryllium	0.91	B		P
7440-43-9	Cadmium	17.0		N*	P
7440-70-2	Calcium	11300			P
7440-47-3	Chromium	91.3			P
7440-48-4	Cobalt	17.8			P
7440-50-8	Copper	247			P
7439-89-6	Iron	57600			P
7439-92-1	Lead	1410		N	P
7439-95-4	Magnesium	6470			P
7439-96-5	Manganese	623		*	P
7439-97-6	Mercury	3.2			CV
7440-02-0	Nickel	90.0			P
7440-09-7	Potassium	584	B		P
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.9	B		P
7440-23-5	Sodium	238	B		P
7440-28-0	Thallium	1.3	U	W	F
7440-62-2	Vanadium	85.5			P
7440-66-6	Zinc	1180			P
5955-70-0	Cyanide	0.61	U		AS

Color Before: BLACK\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: P.\_YELLOW Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

## Comments:

S-8\_ IRON\_AT\_A\_2X\_DILUTION. \_ ARSENIC\_AT\_A\_2X\_DILUTION\_

## INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S-9XXX

Lab Name: NYTEST\_ENV\_INC Contract: 9320470

Lab Code: NYTEST Case No.: 18547 SAS No.: SDG No.: 450

Matrix (soil/water): SOIL Lab Sample ID: 854709

Level (low/med): LOW Date Received: 10/14/93

% Solids: 78.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2120		*	P
7440-36-0	Antimony	18.3		*	P
7440-38-2	Arsenic	41.3		*	F
7440-39-3	Barium	136		*	P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	1.4		N*	P
7440-70-2	Calcium	2640			P
7440-47-3	Chromium	36.1			P
7440-48-4	Cobalt	8.8	B		P
7440-50-8	Copper	109			P
7439-89-6	Iron	46000			P
7439-92-1	Lead	285		N	P
7439-95-4	Magnesium	467	B		P
7439-96-5	Manganese	230		*	P
7439-97-6	Mercury	32.1			CV
7440-02-0	Nickel	17.8			P
7440-09-7	Potassium	480	U		P
7782-49-2	Selenium	1.2			F
7440-22-4	Silver	0.99	U		P
7440-23-5	Sodium	175	B		P
7440-28-0	Thallium	1.2	U	W	F
7440-62-2	Vanadium	18.2			P
7440-66-6	Zinc	258			P
5955-70-0	Cyanide	0.48	U		AS

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: CLEAR Artifacts:

## Comments:

S-9 ARSENIC AT A 5X DILUTION  
HG AT A 9X DILUTION.

# nytest environmental<sub>inc</sub>

## REPORT OF ANALYSIS

Log in No.:18547

We find as follows:

Results in mg/kg (dry wt. basis):

### Sample Identification

### Parameter(s)

### Total Petroleum Hydrocarbons

1854701 S-1  
1854702 S-2  
1854703 S-3  
1854704 S-4  
1854705 S-5  
1854706 S-6  
1854707 S-7  
1854708 S-8  
1854709 S-9  
1854710 S-10

729  
508  
9460  
357  
235000 \*

METHOD BLANK  
METHOD DETECTION LIMIT

<10.0  
10.0

0000099

102  
SEARCHED

ATTACHMENT V



1 WESTON WAY  
WEST CHESTER, PA 19380-1449  
PHONE: 215-692-3030  
FAX: 215-430-3124

**ORGANIC QUALITY ASSURANCE REVIEW**  
**NJDEPE**  
**SITE: VANGUARD VINYL**  
**CASE NO.: 18547**

**REVIEW PERFORMED BY**  
**THE ANALYTICS DIVISION**  
**OF**  
**ROY F. WESTON, INC.**

**PREPARED BY:**

*Kelly Muir Spittler*  
**Kelly Muir Spittler**  
**Unit Leader - Data Validation**

*02-14-94*  
**Date**

**VERIFIED BY:**

*Zohreh Hamid*  
**Zohreh Hamid, Ph.D.**  
**Section Manager - Data Validation**

*2-14-94*  
**Date**

ATTACHMENT *12*



**NJDEPE  
SITE: VANGUARD VINYL  
CASE NO.: 18547**

**CASE SUMMARY**

This data validation review consists of the Vanguard Vinyl data package for the 10-13-93 sampling event. Laboratory analyses were performed by NYTEST Environmental, Inc. for TCL Volatile, Semivolatile, and Pesticide/PCB Organics Target Compounds.

All data have been validated with regard to usability according to the quality assurance guidelines set forth by DPFSR Standard Operating Procedure (SOP No.: 5A.13, Revision No.:0). If you have any questions or comments on this data review, please contact Kelly Spittler at (215) 344-3746.

The following samples are contained within this report:

<u>FIELD SAMPLE</u> <u>(SA0930)</u>	<u>LAB ID</u>	<u>MATRIX</u>	<u>VTSR</u>
3084	FB-SS	Aqueous	10-14-93
3083	FB-T	Aqueous	10-14-93
3073	S-1	Soil	10-14-93
3074	S-2	Soil	10-14-93
3075	S-3	Soil	10-14-93
3076	S-4	Soil	10-14-93
3077	S-5	Soil	10-14-93
3078	S-6	Soil	10-14-93
3079	S-7	Soil	10-14-93
3080	S-8	Soil	10-14-93
3081	S-9	Soil	10-14-93
3082	S-10	Soil	10-14-93

ATTACHMENT V<sup>2</sup>

### QUALITY ASSURANCE REVIEW

The findings offered in this report are based upon a rigorous review of the following criteria, and all deficiencies are summarized under each fraction:

- Data Completeness
- Holding Times
- \* • GC/MS Instrument Performance Check
- Calibration
- Blanks
- Systems Monitoring Compounds/Surrogate Recoveries
- Matrix Spike/Spike Duplicate
- Internal Standard
- \* • Instrument Performance
- \* • Compound Identification
- Compound Quantitations

\* All criteria were met for this classification.

### VOLATILE ORGANICS

The positive result for acetone should be removed from the Form I for sample FB-T, since no spectra was provided and this compound result was crossed out on the quantitation report. The laboratory has been contacted for resubmission.

The following system monitoring compound recoveries were outside the QC limits.

<u>SAMPLE</u>	<u>SURROGATE</u>	<u>RECOVERY</u>
S-5	4-Bromofluorobenzene	196
S-5MS	4-Bromofluorobenzene	123
S-9	Toluene-d <sub>8</sub>	152
	4-Bromofluorobenzene	45
S-9RE	Toluene-d <sub>8</sub>	152

These samples are exhibiting matrix effects. Samples S-5 and S-9RE are to used as the representative results; however, due to the SMC outliers, all positive results and non-detects are qualified estimated.



The MS/MSD recoveries for toluene (58/37%) and RPD results for toluene (44) and chlorobenzene (29) were outside the QC limits in the analyses of S-5MS/MSD. Toluene was detected in the unspiked sample; however, no action is required based on MS/MSD outliers.

The following internal standard areas were below the control limits:

<u>SAMPLE</u>	<u>INTERNAL STANDARD</u>
S-9	All Standards
S-9RE	Chlorobenzene-d <sub>5</sub>

This sample is exhibiting a matrix effect. The reanalysis is reported; however all sample data quantified in reference to chlorobenzene are quantified estimated.

The field and method blanks contained common contaminants methylene chloride and acetone. All positive results less than 3X the blank levels are considered to be artifacts of laboratory contamination and are negated. Results greater than 3X the blank level are believed to be real, but are quantitatively qualified due to blank contamination. (Field blank contamination is qualified or negated due to associated method blank contamination.)

<u>BLANK</u>	<u>COMPOUND</u>	<u>CONCENTRATION</u>
VBLK09	Methylene Chloride	3 ug/L
VBLKD21	Methylene Chloride	7 ug/kg
	Acetone	8 ug/kg
VBLKD22	Acetone	3 ug/kg

#### SEMIVOLATILE ORGANICS

The Form VII (page 106) needs to be resubmitted, since the reported results do not agree with the raw data, all affected sample results should also be resubmitted. The laboratory has been contacted for clarification.

The method blanks contained common contaminant bis(2-ethylhexyl)phthalate, along with up to two (2) tentatively identified compounds. All positive results less than 3X the blank levels are considered to be artifacts of laboratory contamination and are negated. Results greater than 3X the blank level are considered real, but are quantitatively qualified due to method blank contamination.

<u>BLANK</u>	<u>COMPOUND</u>	<u>CONCENTRATION</u>
SBLK66	Bis(2-ethylhexyl)phthalate	58 ug/kg
SBLK43	Bis(2-ethylhexyl)phthalate	110 ug/kg

Sample S-3 and S-6 were reanalyzed 6 days outside of the required holding time. These reanalyses are reported as the representative results but are qualified estimated due to the exceeded holding time.

The following samples did not meet EPA surrogate recovery criteria:

<u>SAMPLE</u>	<u>SURROGATE</u>	<u>RECOVERY</u>
S-3	2-Fluorobiphenyl	124
	Teryphenyl-d <sub>14</sub>	197
S-6	Nitrobenzene-d <sub>5</sub>	6
	2-Fluorobiphenyl	8
	Phenol-d <sub>5</sub>	7
	2-Fluorophenol	6
	2,4,6-Tribromophenol	6
S-9	2-Fluorobiphenyl	119
	Teryphenyl-d <sub>14</sub>	340
S-5MSD	2-Fluorobiphenyl	116
	Teryphenyl-d <sub>14</sub>	204

None of these samples are exhibiting matrix effects. Samples S-3 and S-6 were reanalyzed and the surrogate recovery criteria were met; therefore, the reanalyses are reported. Sample S-9 was not reanalyzed; therefore, the base neutral fraction for sample S-9 is rejected. Sample S-5MSD was reanalyzed as the MS, without outliers.

The following internal standard areas were below the control limits:

<u>SAMPLE</u>	<u>INTERNAL STANDARD</u>
S-3	Phenanthrene-d <sub>10</sub> Chrysene-d <sub>12</sub>
S-5	Chrysene-d <sub>12</sub>
S-5RE	Chrysene-d <sub>12</sub>
S-5MS	Chrysene-d <sub>12</sub>
S-5MSD	Chrysene-d <sub>12</sub>
S-6	Chrysene-d <sub>12</sub>
S-8	Chrysene-d <sub>12</sub>
S-8RE	Chrysene-d <sub>12</sub>

All samples were reanalyzed and samples S-5 and S-8 were exhibiting matrix effects. The original analyses are reported for these samples, but all data quantified in reference to the outliers are qualified estimated. Samples S-3 and S-6 were reanalyzed without IS outliers; therefore, the reanalyses are reported as the representative results.

The following MS/MSD recoveries were outside the QC limits in the analyses of samples S-5MS/MSD:

<u>COMPOUND</u>	<u>RECOVERY</u>
Phenol	126/116
1,2,4-Trichlorobenzene	32
Acenaphthene	23
4-Nitrophenol	128
2,4-Dinitrotoluene	94/115

These compounds were not detected in the unspiked sample; however, since no action is required based on MS/MSD outliers, no qualification has been applied on this basis.

# PESTICIDE/PCBs

Many PEMS compounds in the initial calibration sequence displayed peaks of less than 10% for aldrin, endrin ketone, 4,4-DDE, delta-BHC, and endrin aldehyde. No action has been specified due to these outliers; therefore, no qualification has been applied.

<u>SAMPLE</u>	<u>SURROGATE</u>	<u>COLUMN</u>	<u>% RECOVERY</u>
S-6	TCMX	DB608	58
S-10	DCB	DB608/DB1701	162/156
S-2	TCMX	DB608	58
S-3	TCMX	DB608/DB1701	59/59
S-4	TCMX	DB608/DB1701	39/34
	DCB	DB608/DB1701	278/218
S-5	TCMX	DB608/DB1701	170/169
S-5MS	DCB	DB608	155
S-5MSD	DCB	DB608	182
S-7	TCMX	DB608	158
	DCB	DB608/DB1701	214/166
S-8	TCMX	DB608/DB1701	46/55
	DCB	DB608/DB1701	49/50
S-9	DCB	DB608	160

DCB = Decachlorobiphenyl  
TCMX = Tetrachloro-m-xylene

Sample results may be biased for these analyses; however, no specific qualification is required based on surrogate recovery outliers.


Several positive results had %D between column values exceed 25%; therefore, these results are quantitatively qualified on the target summaries.

The laboratory failed to provide an undiluted analysis run or an analysis at a level less than 10 times the original analysis for the samples. Since an additional run was not provided and a screening procedure was not performed, all positive results are accepted and non-detects are rejected, as per NJDEPE specifications.

The following MS/MSD recoveries and RPD results were outside the QC limits in the analyses of S-5MS/MSD:

<u>MS/MSD/RPD</u>	<u>COMPOUND</u>	<u>RESULT</u>
MS/RPD	Lindane	38/79
MSD/RPD	Heptachlor	153/64
MSD/RPD	Aldrin	194/119
RPD	Dieldrin	44
MS/RPD	4,4-DDT	-8/248

Most of these compounds were not detected in the unspiked sample and since no action is required based on MS/MSD outliers, no qualification has been applied to the sample results on this basis.

APPROVED 

**ATTACHMENTS**

1. Attachment I - Glossary of Data Qualifier Codes
2. Attachment II - Target and Non-target Analyte Summary
3. Attachment III - NJDEP Data Validation Forms

ATTACHMENT V\*



5-10-1953 L.C.

## **GLOSSARY OF DATA QUALIFIERS**

### **CODES RELATING TO IDENTIFICATION**

(confidence concerning presence or absence of compounds):

- U** = NOT DETECTED SUBSTANTIALLY ABOVE THE LEVEL REPORTED IN LABORATORY OR FIELD BLANKS.
- R** = UNRELIABLE RESULT. ANALYTE MAY OR MAY NOT BE PRESENT IN THE SAMPLE. SUPPORTING DATA NECESSARY TO CONFIRM RESULT.
- N** = NEGATED COMPOUND WAS CONSIDERED AS NOT PRESENT IN THE SAMPLE.

(NO CODE) = CONFIRMED IDENTIFICATION

### **CODES RELATING TO QUANTITATION**

(can be used for both positive results and sample quantitation limits):

- J** = ANALYTE PRESENT. REPORTED VALUE MAY NOT BE ACCURATE OR PRECISE.
- UJ** = THE REPORTED QUANTITATION LIMITS ARE QUALIFIED ESTIMATED.

### **OTHER CODES**

- Q** = NO ANALYTICAL RESULT.



**ATTACHMENT II  
TARGET AND NON-TARGET ANALYTE SUMMARY**

## FOOTNOTES FOR TARGET AND NON-TARGET ANALYTE SUMMARY

1. The reported concentration is quantitatively qualified because the concentration is below the CRQL.
2. The value reported is less than or equal to 3X the value in the method blank. It is the policy of NJDEPE-DPFSR to negate the reported value due to probable foreign contamination unrelated to the actual sample. The end-user, however, is alerted that a reportable quantity of the compound was detected.
3. The value reported is greater than three (3) times the value in the method blank and is considered "real". However, the reported value must be quantitatively qualified "J" due to the method blank contamination. The "B" qualifier alerts the end-user to the presence of this compound in the method blank.
4. The reported concentration is quantitatively qualified due to surrogate recovery outliers.
5. One internal standard area in the sample did not meet the QC criteria. Therefore, all compound results using the internal standard for quantitation are quantitatively estimated.
6. The reported result is quantitatively qualified because the %D between column values exceeded 25%.
7. The sample holding time to reextraction was exceeded. All positive results including the tentatively identified compounds are qualified.

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0	S-1	METHYLENE CHLORIDE	7J	6BJ	6NB	NEGATED	1,2
	SA10133073	ACETONE	8J	12B	12NB	NEGATED	2
		2 TICS					
BNA/1.0	S-1	DIMETHYLPHTHALATE	330U	190J	190J	QUALIFIED	1
	SA10133073	DIETHYLPHTHALATE	330U	120J	120J	QUALIFIED	1
		PHENANTHRENE	330U	490J	490J	QUALIFIED	1
		DI-N-BUTYLPHTHALATE	330U	150J	150J	QUALIFIED	1
		FLUORANTHENE	330U	690J	690J	QUALIFIED	1
		PYRENE	330U	700J	700J	QUALIFIED	1
		BENZO(a)ANTHRACENE	330U	290J	290J	QUALIFIED	1
		CHRYSENE	330U	360J	360J	QUALIFIED	1
		BIS(2-ETHYLHEXYL)PHTHALATE	110J	8000BD*	8000JB	QUALIFIED	3
		BENZO(b)FLUORANTHENE	330U	280J	280J	QUALIFIED	1
		BENZO(k)FLUORANTHENE	330U	190J	190J	QUALIFIED	1
		BENZO(a)PYRENE	330U	200J	200J	QUALIFIED	1
		21 TICS					
PEST/2.0+		UNKNOWN RT=6.85	8400J	14000ABJ	14000NB	NEGATED	2
	S-1	4,4-DDE	3.3U	8.9	8.9		
	SA10133073	4,4-DDD	3.3U	12P	12J	QUALIFIED	6
		ENDRIN ALDEHYDE	3.3U	28P	28J	QUALIFIED	6
		AROCLOR-1260	33U	170	170		

REPORTED FROM THE 4-FOLD DILUTION.  
THE NON-DETECTS ARE REJECTED DUE TO LACK OF UNDILUTED ANALYSIS.

ATTACHMENT 18

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0	S-2	METHYLENE CHLORIDE	7J	6BJ	6NB	NEGATED	1,2
	SA10133074	ACETONE	8J	20B	20NB	NEGATED	2
		2 TICS					
BNA/1.0	S-2	NAPHTHALENE	330U	46J	46J	QUALIFIED	1
	SA10133074	DIMETHYLPHTHALATE	330U	310J	310J	QUALIFIED	1
		ACENAPHTHYLENE	330U	47J	47J	QUALIFIED	1
		2,6-DINITROTOLUENE	330U	190J	190J	QUALIFIED	1
		ACENAPHTHENE	330U	41J	41J	QUALIFIED	1
		DIETHYLPHTHALATE	330U	140J	140J	QUALIFIED	1
		FLUORENE	330U	56J	56J	QUALIFIED	1
		PHENANTHRENE	330U	510	510		
		ANTHRACENE	330U	96J	96J	QUALIFIED	1
		DI-N-BUTYLPHTHALATE	330U	170J	170J	QUALIFIED	1
		FLUORANTHENE	330U	730	730		
		PYRENE	330U	740	740		
		BENZO(a)ANTHRACENE	330U	360J	360J	QUALIFIED	1
		CHRYSENE	330U	490	490		
		BIS(2-ETHYLHEXYL)PHTHALATE	110J	640B	640JB	QUALIFIED	3
		BENZO(b)FLUORANTHENE	330U	350J	350J	QUALIFIED	1
		BENZO(k)FLUORANTHENE	330U	270J	270J	QUALIFIED	1
		BENZO(a)PYRENE	330U	320J	320J	QUALIFIED	1
		INDENO(1,2,3-cd)PYRENE	330U	200J	200J	QUALIFIED	1
		21 TICS					
		UNKNOWN RT=6.83	8400J	490JAB	490NB	NEGATED	2
PEST/4.0+	S-2	4,4-DDD	3.3U	18P	18J	QUALIFIED	6
	SA10133074	ENDRIN ALDEHYDE	3.3U	24P	24J	QUALIFIED	6
		AROCOR-1260	33U	460	460		

THE NON-DETECTS ARE REJECTED DUE TO THE LACK OF UNDILUTED ANALYSIS.

ATTACHED V. 1.5

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0	S-3	METHYLENE CHLORIDE	7J	5BJ	5NB	NEGATED	1,2
	SA10133075	1,2-DICHLOROETHENE (TOTAL)	10U	47	47		
		TRICHLOROETHENE	10U	140	140		
		TETRACHLOROETHENE	10U	220	220		
		TOLUENE	10U	2J	2J	QUALIFIED	1
		4 TICS					
BNA/4.0*	S-3	PHENOL	330U	310J	310J	QUALIFIED	1,7
	SA10133075	NAPHTHALENE	330U	1200J	1200J	QUALIFIED	1,7
		2-METHYLNAPHTHALENE	330U	2200	2200		
		DIMETHYPHTHALATE	330U	450J	400J	QUALIFIED	1,7
		BIS(2-ETHYLHEXYL)PHTHALATE	58J	760JB	760JB	QUALIFIED	1,3,7
		21 TICS					
		UNKNOWN RT = 6.70	3300J	13000JAB	13000NB	NEGATED	2,7
PEST/6.0+	S-3	AROCOR-1260	33U	240J	240J	QUALIFIED	1
	SA10133075						

THE ANALYSIS IS QUALIFIED ESTIMATED DUE TO EXCEEDED HOLDING TIMES.  
THE NON-DETECTS ARE REJECTED DUE TO LACK OF UNDILUTED ANALYSIS.

ATTACHMENT 1 of 6

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0	S-4	METHYLENE CHLORIDE	7J	10BJ	10NB	NEGATED	1,2
	SA10133076	ACETONE	8J	8BJ	8NB	NEGATED	1,2
		TOLUENE	10U	2J	2J	QUALIFIED	1
		2 TICS					
BNA/2.0	S-4	DIMETHYLPHTHALATE	330U	3600	3600		
	SA10133076	DIETHYLPHTHALATE	330U	840J	840J	QUALIFIED	1
		DI-N-BUTYLPHTHALATE	330U	210J	210J	QUALIFIED	1
		BIS(2-ETHYLHEXYL)PHTHALATE	110J	510BJ	510NB	NEGATED	1,2
		21 TICS					
PEST/6.0+		UNKNOWN RT = 6.82	8400J	6000JAB	6000NB	NEGATED	2
	S-4	DIELDRIN	3.3U	31P	31J	NEGATED	6
	SA10133076	4,4-DDE	3.3U	19J	19J	QUALIFIED	1
		4,4-DDT	3.3U	78P	78J	QUALIFIED	6
		ENDRIN ALDEHYDE	3.3U	35P	35J	QUALIFIED	6
		AROCLOR-1260	33U	270J	270J	QUALIFIED	1

THE NON-DETECTS ARE REJECTED DUE TO A LACK OF UNDILUTED ANALYSIS.

ATTACHMENT

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0*	S-5	METHYLENE CHLORIDE	7J	30B	30JB	QUALIFIED	4,3
	SA10133077	ACETONE	8J	39B	39B	QUALIFIED	4,3
		1,2-DICHLOROETHENE (TOTAL)	10U	4J	4J	QUALIFIED	1,4
		TRICHLOROETHENE	10U	19	19J	QUALIFIED	4
		TOLUENE	10U	66	66J	QUALIFIED	4
		10 TICS					
BNA/10.0+	S-5	2,6-DINITROTOLUENE	330U	1100J	1100J	QUALIFIED	1
	SA10133077	PHENANTHRENE	330U	530J	530J	QUALIFIED	1
		BIS(2-ETHYLHEXYL)PHthalate	110J	2400BJ	2400NB	NEGATED	1,2,5
		19 TICS					
		UNKNOWN RT=6.81	8400J	10000JAB	10000NB	NEGATED	2
PEST/10.0**	S-5	ALPHA-BHC	1.7U	50P	50J	QUALIFIED	6
	SA10133077	BETA-BHC	1.7U	25JP	25J	QUALIFIED	1,6
		DELTA-BHC	1.7U	18JP	18J	QUALIFIED	1,6
		4,4-DDT	3.3U	60	60		
		ENDRIN ALDEHYDE	3.3U	77	77		

ALL DATA IS QUALIFIED ESTIMATED DUE TO SMC OUTLIERS.

ALL SAMPLE DATA QUANTIFIED IN REFERENCE TO INTERNAL STANDARD CHRYSENE ARE QUALIFIED ESTIMATED.

THE NON-DETECTS ARE REJECTED DUE TO THE LACK OF UNDILUTED ANALYSIS.

ATTACHMENT 1

017

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0	S-6	METHYLENE CHLORIDE	10U	6J	6J	QUALIFIED	1
	SA10133078	10 TICS					
BNA/4.0*	S-6	DIMETHYPHTHALATE	330U	9300	9300J	QUALIFIED	7
	SA10133078	DIBENZOFURAN	330U	200J	200J	QUALIFIED	1,7
		DIETHYLPHTHALATE	330U	2500	2500J	QUALIFIED	7
		PHENANTHRENE	330U	540J	540J	QUALIFIED	1,7
		FLUORANTHENE	330U	340J	340J	QUALIFIED	1,7
		BIS(2-ETHYLHEXYL)PHTHALATE	58J	2000B	2000JB	QUALIFIED	3,7
		21 TICS					
		UNKNOWN RT=6.81	3300J	1600JAB	1600NB	NEGATED	2,7
PEST/3.0+	S-6	DIELDRIN	3.3U	16P	16J	QUALIFIED	6
	SA10133078	4,4-DDD	3.3U	25P	25J	QUALIFIED	6
		4,4-DDT	3.3U	52P	52J	QUALIFIED	6
		ENDRIN ALDEHYDE	3.3U	22P	22J	QUALIFIED	6
		AROCLOR-1260	33U	200	200		

THE ANALYSIS IS QUALIFIED ESTIMATED DUE TO EXCEEDED HOLDING TIME.  
THE NON-DETECTS ARE REJECTED DUE TO THE LACK OF UNDILUTED ANALYSIS.

ATTACHMENT V19



TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0	S-7	METHYLENE CHLORIDE	7J	35B	35JB	QUALIFIED	3
	SA10133079	ACETONE	8J	15BJ	15NB	NEGATED	1,2
		TOLUENE	10U	7J	7J	QUALIFIED	1
		1 TIC					
BNA/2.0	S-7	PHENOL	330U	330J	330J	QUALIFIED	1
	SA10133079	DIMETHYLPHTHALATE	330U	280J	280J	QUALIFIED	1
		2,6-DINITROTOLUENE	330U	1200J	1200J	QUALIFIED	1
		DIETHYLPHTHALATE	330U	150J	150J	QUALIFIED	1
		PHENANTHRENE	330U	410J	410J	QUALIFIED	1
		DI-N-BUTYLPHTHALATE	330U	330J	330J	QUALIFIED	1
		FLUORANTHENE	330U	390J	390J	QUALIFIED	1
		BUTYLBENZYLPHTHALATE	330U	810J	810J	QUALIFIED	1
		BIS(2-ETHYLHEXYL)PHTHALATE	110J	4300B	4300JB	QUALIFIED	3
		DI-N-OCTYLPHTHALATE	330U	190J	190J	QUALIFIED	1
		21 TICS					
		UNKNOWN RT=6.77	8400J	5100JAB	5100NB	NEGATED	2
PEST/10.0+	S-7	ENDOSULFAN I	1.7U	40	40		
	SA10133079	4,4-DDT	3.3U	210P	210J	QUALIFIED	6
		ENDRIN ALDEHYDE	3.3U	390	390		

THE NON-DETECTS ARE REJECTED DUE TO THE LACK OF UNDILUTED ANALYSIS.

ATTACHMENT V

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0	S-8	METHYLENE CHLORIDE	10U	5J	5J	QUALIFIED	1
	SA10133080	ACETONE	3J	7BJ	7NB	NEGATED	1,2
		TOLUENE	10U	2J	2J	QUALIFIED	1
		4 TICS					
BNA/4.0+	S-8	PHENOL	330U	1300J	1300J	QUALIFIED	1
	SA10133080	NAPHTHALENE	330U	1200J	1200J	QUALIFIED	1
		2-METHYLNAPHTHALENE	330U	480J	480J	QUALIFIED	1
		DIMETHYLPHTHALATE	330U	1300J	1300J	QUALIFIED	1
		ACENAPHTHYLENE	330U	760J	760J	QUALIFIED	1
		2,6-DINITROTOLUENE	330U	2000	2000		
		ACENAPHTHENE	330U	770J	770J	QUALIFIED	1
		DIBENZOFURAN	330U	540J	540J	QUALIFIED	1
		DIETHYLPHTHALATE	330U	350J	350J	QUALIFIED	1
		FLUORENE	330U	920J	920J	QUALIFIED	1
		PHENANTHRENE	330U	5800	5800		
		ANTHRACENE	330U	1500J	1500J	QUALIFIED	1
		DI-N-BUTYLPHTHALATE	330U	470J	470J	QUALIFIED	1
		FLUORANTHENE	330U	6400	6400		
		PYRENE	330U	7600	7600J	QUALIFIED	5
		BUTYLBENZYLPHTHALATE	330U	280J	280J	QUALIFIED	1,5
		BENZO(a)ANTHRACENE	330U	3700	3700J	QUALIFIED	5
		CHRYSENE	330U	4800	4800J	QUALIFIED	5
		BIS(2-ETHYLHEXYL)PHTHALATE	110J	3600B	3600JB	QUALIFIED	3,5
		BENZO(b)FLUORANTHENE	330U	3200	3200		
		BENZO(k)FLUORANTHENE	330U	3200	3200		
		BENZO(a)PYRENE	330U	3700	3700		
		INDENO(1,2,3-cd)PYRENE	330U	2600	2600		
		BENZO(g,h,i)PERYLENE	330U	2500	2500		
		21 TICS					
		UNKNOWN RT=6.85	8400J	13000JAB	13000NB	NEGATED	2

	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
PEST/3.0*	S-8	ENDOSULFAN I	1.7U	21	21		
	SA10133080	4,4-DDT	3.3U	12JP	12J	QUALIFIED	1
		ENDRIN ALDEHYDE	3.3U	13JP	13J	QUALIFIED	1,6

ALL SAMPLE DATA QUANTIFIED IN REFERENCE TO INTERNAL STANDARD CHRYSENE ARE QUALIFIED ESTIMATED.  
ALL NON-DETECTS ARE REJECTED DUE TO THE LACK OF UNDILUTED ANALYSIS.

ATTACHMENT <sup>22</sup> *[Signature]*

021

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0*	S-9RE	METHYLENE CHLORIDE	10U	6J	6J	QUALIFIED	1,4
	SA10133081	ACETONE	3J	8BJ	8NB	NEGATED	1,2
		TOLUENE	10U	11J	11J	QUALIFIED	1,4
		5 TICS					
BNA/8.0+	S-9	NAPHTHALENE	330U	810J	810R	REJECTED	1,5
	SA10133081	2-METHYLNAPHTHALENE	330U	590J	590R	REJECTED	1,5
		ACENAPHTHYLENE	330U	660J	660R	REJECTED	1,5
		ACENAPHTHENE	330U	2400J	2400R	REJECTED	1,5
		DIBENZOFURAN	330U	1600J	1600R	REJECTED	1,5
		FLUORENE	330U	2900J	2900R	REJECTED	1,5
		PHENANTHRENE	330U	17000	17000R	REJECTED	5
		ANTHRACENE	330U	4200	4200R	REJECTED	5
		CARBAZOLE	330U	1400J	1400R	REJECTED	1,5
		FLUORANTHENE	330U	19000	19000R	REJECTED	5
		PYRENE	330U	13000	13000R	REJECTED	5
		BENZO(a)ANTHRACENE	330U	8800	8800R	REJECTED	5
		CHRYSENE	330U	8300	8300R	REJECTED	5
		BIS(2-ETHYLHEXYL)PHTHALATE	110J	1500BJ	1500R	REJECTED	1,2,5
		BENZO(b)FLUORANTHENE	330U	6200	6200R	REJECTED	5
		BENZO(k)FLUORANTHENE	330U	4100	4100R	REJECTED	5
		BENZO(a)PYRENE	330U	6500	6500R	REJECTED	5
		INDENO(1,2,3-cd)PYRENE	330U	3300J	3300R	REJECTED	1,5
		BENZO(g,h,i)PERYLENE	330U	2800J	2800R	REJECTED	1,5
		17 TICS					
PEST/3.0**	S-9	ENDRIN	3.3U	12JP	12J	QUALIFIED	1,6
	SA10133081	4,4-DDT	3.3U	12JP	12J	QUALIFIED	1,6
		ENDRIN ALDEHYDE	3.3U	21P	21J	QUALIFIED	6

ALL DATA ARE CONSIDERED ESTIMATED DUE TO SMC OUTLIERS AND ALL NON-DETECTS QUANTIFIED IN REFERENCE TO CHLOROBENZENE ARE QUALIFIED DUE TO THE INTERNAL STANDARD OUTLIER.  
 THE BASE NEUTRAL FRACTION IS REJECTED DUE TO SURROGATE OUTLIERS.  
 ALL NON-DETECTS ARE REJECTED DUE TO THE LACK OF UNDILUTED ANALYSIS.

APPROVED V. 1.23  
 022

TARGET & NON-TARGET ANALYTE DATA SUMMARY

CASE NO: 18547

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

FRACTION /D.F.	SAMPLE ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOT NOTE
VOA/1.0	S-10	METHYLENE CHLORIDE	7J	15B	15NB	NEGATED	2
	SA10133082	ACETONE	8J	7BJ	7NB	NEGATED	1,2
		3 TICS					
BNA/1.0	S-10	DIMETHYLPHTHALATE	330U	140J	140J	QUALIFIED	1
	SA10133082	DIETHYLPHTHALATE	330U	110J	110J	QUALIFIED	1
		PHENANTHRENE	330U	480J	480J	QUALIFIED	1
		DI-N-BUTYLPHTHALATE	330U	1300	1300		
		FLUORANTHENE	330U	770J	770J	QUALIFIED	1
		PYRENE	330U	620J	620J	QUALIFIED	1
		BENZO(a)ANTHRACENE	330U	280J	280J	QUALIFIED	1
		CHRYSENE	330U	360J	360J	QUALIFIED	1
		BIS(2-ETHYLHEXYL)PHTHALATE	110J	2600B	2600JB	QUALIFIED	3
		BENZO(b)FLUORANTHENE	330U	310J	310J	QUALIFIED	1
		BENZO(k)FLUORANTHENE	330U	220J	220J	QUALIFIED	1
		BENZO(a)PYRENE	330U	230J	230J	QUALIFIED	1
		16 TICS					
		UNKNOWN RT=6.82	8400JA	14000JAB	14000NB	NEGATED	2
PEST/3.0*	S-10	DIELDRIN	3.3U	13P	13J	QUALIFIED	6
	SA10133082	4,4-DDE	3.3U	88P	88J	QUALIFIED	6
		4,4-DDD	3.3U	30	30		
		4,4-DDT	3.3U	13P	13J	QUALIFIED	6
		ENDRIN ALDEHYDE	3.3U	12JP	12J	QUALIFIED	1,6
		AROCLOR-1260	33U	170P	170J	QUALIFIED	6

THE NON-DETECTS ARE REJECTED DUE TO THE LACK OF UNDILUTED ANALYSIS.

ATTACHED V<sup>24</sup>

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**SITE NAME:** VANGUARD

**SAMPLE MATRIX:** WATER

[illegible]

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1 WESTON WAY  
WEST CHESTER, PA 19380-1449  
PHONE: 215-692-3030  
FAX: 215-430-3124

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**INORGANIC QUALITY ASSURANCE REVIEW**  
**NJDEPE**  
**SITE: VANGUARD**  
**SDG NO.: 450**

**REVIEW PERFORMED BY**  
**THE ANALYTICS DIVISION**  
**OF**  
**ROY F. WESTON, INC.**

PREPARED BY:

*Kelly Muir Gittler*  
for Doug Godfrey  
Project Scientist

02-15-94  
Date

VERIFIED BY:

*Zohreh Hamid*  
Zohreh Hamid, Ph.D.  
Section Manager - Data Validation

2-18-94  
Date





**NJDEPE  
SITE: VANGUARD  
SDG No.: 450**

**CASE SUMMARY**

This data validation review consist of the NJDEP data package for the 10-13-93 sampling event. Laboratory analyses were performed by NYTEST Environmental, Inc., (NEI) for Target Analyte List (TAL) inorganics and TPHC (ten samples).

All data have been validated with regard to usability according to the quality assurance guidelines set forth by contract X-26113 (CLP) and DPFSR Standard Operating Procedure (SOP NO.:5.A.2, Revision Number:2).

If you have any questions or comments on this data review, please contact Zohreh Hamid at (215) 344-3745.

The following samples are contained within this report:

<b>SAMPLE IDENTIFICATION</b>	<b>SAMPLE IDENTIFICATION</b>
SA10133073	SA10133078
SA10133074	SA10133079
SA10133075	SA10133080
SA10133076	SA10133081
SA10133077	SA10133082

All samples received at the laboratory on 10-14-93.

10/14/93  
10/14/93

**QUALITY ASSURANCE REVIEW**

The findings offered in this report are based upon a rigorous review of the following criteria, and all deficiencies are summarized under each parameter:

- \* • Data Completeness
- Holding Times
- \* • Calibration Analysis
- Contract Required Detection Limit Sample Analysis
- Blank Sample Analysis
- \* • Interference Check Sample Analysis
- Matrix Spike/Post-Digestion Spike Sample Analysis
- Duplicate Digestion Sample Analysis
- \* • Laboratory Control Sample Analysis
- \* • Serial Dilution Sample Analysis
- \* • Quarterly Verification of Instrument Parameters
- \* • Sample Result Verification
- \* • Preparation Logs
- \* • Run Logs

- \* All criteria were met for this classification.

**HOLDING TIMES**

The holding time for CN was exceeded by one day. The non-detected and detected sample results are qualified estimated.

**CONTRACT REQUIRED DETECTION LIMITS**

The CRDL standard recoveries for Sb (75.7%), Cd (127.7%), Cr (137.8%), Se (122.0%), and Ag (62.8%) were outside the 80-120% validation requirement limit. The reported sample values up to 10X CRDL are qualified estimated for the affected samples. The non-detected values for Sb and Ag are qualified estimated.

**BLANK ANALYSIS**

The soil preparation blank contained Ag at levels greater than the IDL. The results for this analyte was qualified based on contamination in the blank analysis.

**MATRIX SPIKE ANALYSIS**

The spike recoveries for Cd (125.2%) and Pb (194.2%) were outside the control limits of 75-125%. The non-detected sample results are accepted unqualified. The detected sample results are qualified estimated and considered to be biased high.

**DUPLICATE DIGESTION ANALYSIS**

The duplicate digestion sample results were outside the acceptable control limits for Al, Sb, As, Ba, Cd, and Mn. The reported results are qualified estimated.

**GRAPHITE FURNACE**

The following samples analyzed by graphite furnace had analytical spike recoveries outside the 85-115% QC limits:

SAMPLE IDENTIFICATION	ANALYTE	PER CENT RECOVERY
SA10133074	Se	118.0*
SA10133080	Se/Tl	139.0*/116.0*
SA10133081	Tl	121.0*
SA10133082	Se	117.0*

- \* The reported sample result should be qualified estimated, however, Se and Tl were as not detected in these samples. Therefore, the data are accepted unqualified.



NJDEPE - Vanguard

Page 4

### SAMPLE RESULTS

The results for SA10133076 were obtained by Method of Standard Addition. The correlation coefficient was  $>0.995$ , so no action was required.

### SUMMARY

The data package was complete. The quality of the data was good. The data is considered usable with the applied qualifier codes.

APPROVED BY: [Signature]  
DATE: 10/13/2011



### ATTACHMENTS

1. Attachment I - Glossary of Data Qualifier Codes
2. Attachment II - Target Analyte Summary
3. Attachment III - NJDEP Data Validation Forms



**ATTACHMENT I**  
**GLOSSARY OF DATA QUALIFIER CODES**



## GLOSSARY OF DATA QUALIFIERS

### CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

- U = NOT DETECTED SUBSTANTIALLY ABOVE THE LEVEL REPORTED IN LABORATORY OR FIELD BLANKS.
- R = UNRELIABLE RESULT. ANALYTE MAY OR MAY NOT BE PRESENT IN THE SAMPLE. SUPPORTING DATA NECESSARY TO CONFIRM RESULT.
- N = NEGATED COMPOUND WAS CONSIDERED AS NOT PRESENT IN THE SAMPLE.

(NO CODE) = CONFIRMED IDENTIFICATION

### CODES RELATING TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

- J = ANALYTE PRESENT. REPORTED VALUE MAY NOT BE ACCURATE OR PRECISE.
- UJ = THE REPORTED QUANTITATION LIMITS ARE QUALIFIED ESTIMATED.

### OTHER CODES

- Q = NO ANALYTICAL RESULT.



**ATTACHMENT II**  
**TARGET AND NON-TARGET ANALYTE SUMMARY**

ATTACHED <sup>135</sup>



## FOOTNOTES

1. The non-detected values are quantitatively qualified due to an exceeded holding time of less than 10 days.
2. The reported concentration was quantitatively qualified because the concentration was below the CRDL but greater than the IDL. The concentration is considered estimated since the value is at the low end of the instrument's performance.
3. The reported results up to 10X the CRDL are qualified estimated due to the high recovery in the CRDL standard analysis. The reported results near the detection limits are biased high.
4. The reported results up to 10X the CRDL are qualified estimated due to the low recovery in the CRDL standard analysis. The reported results near the detection limits are biased low.
5. The non-detected values are qualified estimated due to the low recovery in the CRDL standard analysis.
6. The reported positive result up to  $\leq 3X$  the blank contamination level is considered negated and is qualified B due to the blank contamination.
7. The reported value was qualified because the spike recovery was greater than 125% but less than or equal to 200%.
8. In the duplicate sample analysis, the analyte fell outside the control limits of  $\pm 20\%$  or  $\pm$  CRDL. Therefore, the result was qualified.

# INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133073	854701	ALUMINUM		2280	2280J	QUALIFIED	8
		ANTIMONY		22.5	22.5J	QUALIFIED	4,8
		ARSENIC		8.2	8.2J	QUALIFIED	8
		BARIUM		46.5	46.5J	QUALIFIED	8
		CALCIUM		3690	3690		
		CHROMIUM		13.5	13.5J	QUALIFIED	3
		COPPER		39.1	39.1		
		IRON		7310	7310		
		LEAD		96.4	96.4J	QUALIFIED	7
		MERCURY		1.0	1.0		
		MAGNESIUM		981B	981J	QUALIFIED	2
		MANGANESE		52.0	52.0J	QUALIFIED	8
		SILVER	1.494B	1.6B	1.6BN	NEGATED	2,4,6
		SODIUM		46.1B	46.1J	QUALIFIED	2
		VANADIUM		13.1	13.1		
		ZINC		97.7	97.7		
		CYANIDE		0.66U	0.66UJ	QUALIFIED	1

ATTACHMENT 1.32

# INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL  
UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133074	854702	ALUMINUM		3490	3490J	QUALIFIED	8
		ANTIMONY		50.6	50.6J	QUALIFIED	4,8
		ARSENIC		4.2	4.2J	QUALIFIED	8
		BARIUM		48.7	48.7J	QUALIFIED	8
		BERYLLIUM		0.31B	0.31J	QUALIFIED	2
		CALCIUM		7840	7840		
		CHROMIUM		19.0	19.0J	QUALIFIED	3
		COBALT		3.3B	3.3J	QUALIFIED	2
		COPPER		37.8	37.8		
		IRON		9770	9770		
		LEAD		130	130J	QUALIFIED	7
		MAGNESIUM		4470	4470		
		MANGANESE		79.6	79.6J	QUALIFIED	8
		MERCURY		0.55	0.55		
		NICKEL		7.0B	7.0J	QUALIFIED	2
		POTASSIUM		546B	546J	QUALIFIED	2
		SILVER	1.494B	1.2B	1.2BN	NEGATED	2,4,6
		SODIUM		34.8B	34.8J	QUALIFIED	2
		VANADIUM		21.7	21.7		
		ZINC		138	138		
		CYANIDE		0.44U	0.44UJ	QUALIFIED	1

ATTACHED 38

# INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133075	854703	ALUMINUM		2390	2390J	QUALIFIED	8
		ANTIMONY		217	217J	QUALIFIED	8
		ARSENIC		4.9	4.9J	QUALIFIED	8
		BARIUM		81.1	81.1J	QUALIFIED	8
		CALCIUM		1630	1630		
		CHROMIUM		140	140		
		COBALT		3.6B	3.6J	QUALIFIED	2
		COPPER		49.6	49.6		
		IRON		21700	21700		
		LEAD		279	279J	QUALIFIED	7
		MAGNESIUM		1090B	1090J	QUALIFIED	2
		MANGANESE		88.0	88.0J	QUALIFIED	8
		MERCURY		0.78	0.78		
		NICKEL		53.5	53.5		
		SILVER	1.494B	1.0	1.0J	QUALIFIED	5
		SODIUM		138B	138J	QUALIFIED	2
		VANADIUM		16.6	16.6		
		ZINC		132	132		
		CYANIDE		0.62U	0.62UJ	QUALIFIED	1

ATTACHED V39

# INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133076	854704	ALUMINUM		3110	3110J	QUALIFIED	8
		ANTIMONY		570	570J	QUALIFIED	8
		ARSENIC		8.4	8.4J	QUALIFIED	8
		BARIUM		88.8	88.8J	QUALIFIED	8
		BERYLLIUM		0.31B	0.31J	QUALIFIED	2
		CALCIUM		8630	8630		
		CHROMIUM		117	117		
		COBALT		14.2B	14.2J	QUALIFIED	2
		COPPER		247	247		
		IRON		94700	94700		
		LEAD		788	788J	QUALIFIED	7
		MAGNESIUM		8610	8610		
		MANGANESE		441	441J	QUALIFIED	8
		MERCURY		0.26	0.26		
		NICKEL		173	173		
		SILVER	1.494B	1.1	1.1J	QUALIFIED	5
		SODIUM		836B	836J	QUALIFIED	2
		VANADIUM		30.3	30.3		
		ZINC		7300	7300		
		CYANIDE		0.65U	0.65UJ	QUALIFIED	1

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133077	854705	ALUMINUM		9030	9030J	QUALIFIED	8
		ANTIMONY		827	827J	QUALIFIED	8
		ARSENIC		8.1	8.1J	QUALIFIED	8
		BARIUM		336	336J	QUALIFIED	8
		BERYLLIUM		1.1B	1.1J	QUALIFIED	2
		CADMIUM		4.6	4.6J	QUALIFIED	3,7,8
		CALCIUM		6860	6860		
		CHROMIUM		52.3	52.3		
		COBALT		12.0B	12.0J	QUALIFIED	2
		COPPER		823	823		
		IRON		39300	39300		
		LEAD		500	500J	QUALIFIED	7
		MAGNESIUM		5680	5680		
		MANGANESE		305	305J	QUALIFIED	8
		MERCURY		1.0	1.0		
		NICKEL		35.7	35.7		
		POTASSIUM		1130B	1130J	QUALIFIED	2
		SILVER	1.494B	1.2	1.2J	QUALIFIED	5
		SODIUM		188B	188J	QUALIFIED	2
		VANADIUM		37.9	37.9		
		ZINC		1990	1990		
		CYANIDE		0.68U	0.68UJ	QUALIFIED	1

ATTACHMENT 1

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133078	854706	ALUMINUM		2890	2890J	QUALIFIED	8
		ANTIMONY		726	726J	QUALIFIED	8
		ARSENIC		13.5	13.5J	QUALIFIED	8
		BARIUM		298	298J	QUALIFIED	8
		CADMIUM		42.0	42.0J	QUALIFIED	7,8
		CALCIUM		5440	5440		
		CHROMIUM		64.0	64.0		
		COBALT		25.0	25.0		
		COPPER		323	323		
		IRON		123000	123000		
		LEAD		3810	3810J	QUALIFIED	7
		MAGNESIUM		1530	1530		
		MANGANESE		776	776J	QUALIFIED	8
		MERCURY		1.7	1.7		
		NICKEL		97.2	97.2		
		SILVER	1.494B	1.4B	1.4BN	NEGATED	3,4,6
		SODIUM		91.6B	91.6J	QUALIFIED	2
		VANADIUM		42.7	42.7		
		ZINC		2510	2510		
		CYANIDE		0.83U	0.83UJ	QUALIFIED	1

ATTACHMENT V42

INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL  
UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133079	854707	ALUMINUM		1370	1370J	QUALIFIED	8
		ANTIMONY		130	130J	QUALIFIED	4,8
		ARSENIC		2.6B	2.6J	QUALIFIED	2,8
		BARIUM		34.5B	34.5J	QUALIFIED	2,8
		CADMIUM		4.0	4.0J	QUALIFIED	3,7,8
		CALCIUM		15500	15500		
		CHROMIUM		17.8	17.8J	QUALIFIED	3
		COPPER		39.4	39.4		
		IRON		7470	7470		
		LEAD		115	115J	QUALIFIED	7
		MAGNESIUM		423B	423J	QUALIFIED	2
		MANGANESE		61.6	61.6J	QUALIFIED	8
		MERCURY		0.39	0.39		
		NICKEL		12.0B	12.0	QUALIFIED	2
		SILVER	1.494B	1.4	1.4J	QUALIFIED	5
		SODIUM		118B	118J	QUALIFIED	2
		VANADIUM		10.8B	10.8J	QUALIFIED	2
		ZINC		414	414		
		CYANIDE		0.91U	0.91UJ	QUALIFIED	1

ATTACHMENT V<sup>43</sup>



INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133080	854708	ALUMINUM		7140	7140J	QUALIFIED	8
		ANTIMONY		465	465J	QUALIFIED	8
		ARSENIC		21.0	21.0J	QUALIFIED	8
		BARIUM		483	483J	QUALIFIED	8
		BERYLLIUM		0.91	0.91J	QUALIFIED	2
		CADMIUM		17.0	17.0J	QUALIFIED	7,8
		CALCIUM		11300	11300		
		CHROMIUM		91.3	91.3		
		COBALT		17.8	17.8		
		COPPER		247	247		
		IRON		57600	57600		
		LEAD		1410	1410J	QUALIFIED	7
		MAGNESIUM		6470	6470		
		MANGANESE		623	623J	QUALIFIED	8
		MERCURY		3.2	3.2		
		NICKEL		90.0	90.0		
		POTASSIUM		584	584J	QUALIFIED	2
		SILVER	1.494B	1.9B	1.9J	NEGATED	2,4,6
		SODIUM		238	238J	QUALIFIED	2
		VANADIUM		85.5	85.5		
		ZINC		1180	1180		
		CYANIDE		0.61U	0.61UJ	QUALIFIED	1

ATTACHMENT V49

# INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133081	854709	ALUMINUM		2120	2120J	QUALIFIED	8
		ANTIMONY		18.3	18.3J	QUALIFIED	4,8
		ARSENIC		41.3	41.3J	QUALIFIED	8
		BARIUM		136	136J	QUALIFIED	8
		BERYLLIUM		0.28B	0.28J	QUALIFIED	2
		CADMIUM		1.4	1.4J	QUALIFIED	3,7,8
		CALCIUM		2640	2640		
		CHROMIUM		36.1	36.1		
		COBALT		8.8B	8.8J	QUALIFIED	2
		COPPER		109	109		
		IRON		46000	46000		
		LEAD		285	285J	QUALIFIED	7
		MAGNESIUM		467B	467J	QUALIFIED	2
		MANGANESE		230	230J	QUALIFIED	8
		MERCURY		32.1	32.1		
		NICKEL		17.8	17.8		
		SELENIUM		1.2	1.2J	QUALIFIED	3
		SILVER	1.494B	0.99U	0.99UJ	QUALIFIED	5
		SODIUM		175B	175J	QUALIFIED	2
		VANADIUM		18.2	18.2		
		ZINC		258	258		
		CYANIDE		0.48U	0.48UJ	QUALIFIED	1

ATTACHED 1-45

# INORGANIC TARGET ANALYTE SUMMARY LIST

CASE NO: SDG NO.: 450

SITE NAME: VANGUARD

LAB NAME: NYTEST

SAMPLE MATRIX: SOIL

UNIT: mg/kg

SAMPLE ID	LAB ID	ANALYTE	METHOD BLANK CONC.	LAB REPORT CONC.	QA REPORT CONC.	QA DECISIONS	FOOTNOTE
SA10133082	854710	ALUMINUM		2670	2670J	QUALIFIED	8
		ANTIMONY		8.8B	8.8J	QUALIFIED	2,4,8
		ARSENIC		4.2	4.2J	QUALIFIED	8
		BARIUM		46.6	46.6J	QUALIFIED	8
		BERYLLIUM		0.30B	0.30J	QUALIFIED	2
		CADMIUM		1.0B	1.0J	QUALIFIED	2,3,7,8
		CALCIUM		4050	4050		
		CHROMIUM		17.5	17.5J	QUALIFIED	3
		COPPER		42.9	42.9		
		IRON		7560	7560		
		LEAD		116	116J	QUALIFIED	7
		MAGNESIUM		1930	1930		
		MANGANESE		54.1	54.1J	QUALIFIED	8
		MERCURY		0.54	0.54		
		POTASSIUM		458B	458J	QUALIFIED	2
		SILVER	1.494B	0.89U	0.89UJ	QUALIFIED	5
		SODIUM		36.0B	36.0J	QUALIFIED	2
		VANADIUM		13.7	13.7		
		ZINC		109	109		
		CYANIDE		0.69U	0.69UJ	QUALIFIED	1

ATTACHED V-46

ATTACHMENT W

Deborah Mazur  
984-3017

WATER-QUALITY DATA FOR THE POTOMAC-RARITAN-MAGOTHY  
AQUIFER SYSTEM IN SOUTHWESTERN NEW JERSEY, 1923-83

By Thomas V. Fusillo, Joseph J. Hochreiter, Jr., and  
Deborah Grant Lord

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U.S. GEOLOGICAL SURVEY

Open-File Report 84-737

Prepared in cooperation with  
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION,  
DIVISION OF WATER RESOURCES



Trenton, New Jersey

November 1984

# CAMDEN COUNTY GEOLOGY REPORT

## A B S T R A C T

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Camden County, New Jersey, is located in the Philadelphia-Camden metropolitan area. The western edge of the county is urban and industrial in character. The central part is less industrial and more suburban in character, and the eastern part is sparsely populated and predominantly agricultural, although urbanization is advancing eastward quite rapidly.

Camden County is in the Atlantic Coastal Plain physiographic province. Underlying the county are unconsolidated sediments of Quaternary, Tertiary, and Cretaceous age, consisting of mostly alternating sands, silts, and clays. The sediments dip gently to the southeast and thicken from 40 feet at the Delaware River to 2,900 feet at the Camden-Atlantic County line. Below the unconsolidated sediments is the pre-Cretaceous crystalline bedrock.

The major fresh-water aquifers in Camden County are sands and gravels of Cretaceous and Tertiary age in the Potomac Group and the Raritan and Magothy Formations; the Cohansey Sand; the Wenonah Formation-Mount Laurel Sand; and the Englishtown Formation. Minor aquifers are found in parts of the Merchantville Formation, the undifferentiated Vincentown and Manasquan Formations, and the Kirkwood Formation. Saturated sands and gravels in the surficial deposits of Quaternary age where in direct contact are commonly hydraulically connected to the underlying aquifers.

The rate of ground-water withdrawal for Camden County was 68 mgd (million gallons per day) in 1966. This was the largest average annual county pumpage in the State in 1966. Eighty-five percent (56 mgd) was pumped from the aquifer system in the Potomac Group and the Raritan and Magothy Formations.

The potentiometric surfaces of all the major artesian aquifers in Camden County declined from 1900 to 1970 as a result of pumping. The largest decline occurred in the aquifer system in the Potomac Group and the Raritan and Magothy Formations. At Haddon Heights, in the western part of the county, the potentiometric surface declined about 110 feet from 1900 to 1968. The potentiometric surface of the aquifer in the Wenonah Formation-Mount Laurel Sand declined 43 feet in about 60 years in the vicinity of Berlin Borough.

The chemical quality of ground water in Camden County

probably extended from Philadelphia to the area updip from New Brooklyn Park.

A thickness map of the Potomac Group and the Raritan and Magothy Formations is given in figure 9. Also shown is the percentage of sand as estimated from geophysical logs from wells that penetrate the section from the top of the Magothy to the crystalline rocks. The thickness lines show the thickening of the sediments downdip. The percentage of sand indicates greater values in the updip area and lower values in the downdip area. The estimated percentage of sand at the New Brooklyn Park well (WI 27) is 37. Based on the depositional concept developed by Fisher and McGowen (1969) the New Brooklyn Park well is interpreted as being in the distributary channel-marsh and swamp facies. The sediments found in the Haddonfield area are interpreted as including the transitional, slightly meandering channel facies of Fisher and McGowen (1969). The dendritic tributary channel facies is interpreted as occurring in the area from Philadelphia to the northern part of Camden County. The highly meandering channel facies probably occurs in the area downdip from Elm Tree Farms well (VO 12). Lack of data prevents the delineation of the extent of this facies downdip of the Elm Tree Farms area.

Particle-size analysis is available for samples from the New Brooklyn Park test well (WI 27) in Winslow Township (table 5). The particle-size analysis shows the predominant silt and clay values.

### Hydrology

The most productive source of ground water in Camden County is the Potomac-Raritan-Magothy aquifer system. The aquifer system is made up of aquifers consisting of sand with some gravel and confining units consisting of silts and clays and is overlain in the outcrop area by highly permeable Pleistocene sand and gravel. The sands are separated into three hydrologic units, an upper, middle, and lower aquifer. The upper unit consists mainly of the sands of the Magothy Formation. The middle and lower units consist mainly of sands of the Raritan Formation and the Potomac Group. The thickness of the three hydrologic units are shown in figures 11, 12, and 13. The lower aquifer in the outcrop area is overlain by and hydraulically connected to the Pleistocene deposits and is a water-table aquifer in Philadelphia. The upper aquifer in the outcrop area is overlain by and hydraulically connected to the Pleistocene deposits in Camden County and is under water-table conditions.

Potomac Group and the Raritan and Magothy Formations

Regional Setting and Stratigraphic Framework

The Potomac Group and the Raritan and Magothy Formations are fluvial-marginal marine sediments of Early to Late Cretaceous age and overlie the pre-Cretaceous crystalline rocks. These sediments make up an extensive part of the Coastal Plain sediments in New Jersey and in the adjacent states. Major structures which contain the greatest thickness of sediments are the Salisbury embayment (Richards, 1945) in Delaware and the Raritan embayment in the vicinity of Raritan Bay and eastern Long Island. The area between these two embayments, which includes Camden County, contains smaller arches and troughs. The outcrop area of the Potomac Group and Raritan and Magothy Formations in Camden County (21 square miles in area) is in the northwestern part of the county near the Delaware River. The units are extensively overlain by permeable Pleistocene deposits in the outcrop area.

The Potomac Group and the Raritan and Magothy Formations form a wedge-shaped body that thickens in a downdip direction and is underlain by the crystalline basement. The configuration of the crystalline rocks is shown in figure 7. The upper limit of the wedge-shaped body is the contact between the Merchantville Formation and the top of the Magothy Formation (fig. 8). The difference between the basement and the top of the Magothy is the total thickness of Potomac Group and the Raritan and Magothy Formations (fig. 9).

In Camden County the thickness of the Potomac Group and Raritan and Magothy Formations ranges from approximately 260 feet at the Collingswood well 7 (CO 7), located near the outcrop area, to approximately 1,210 feet at the New Brooklyn Park test well (WI 27). This is shown on the thickness map in figure 9. The distance between the two wells is 13 miles.

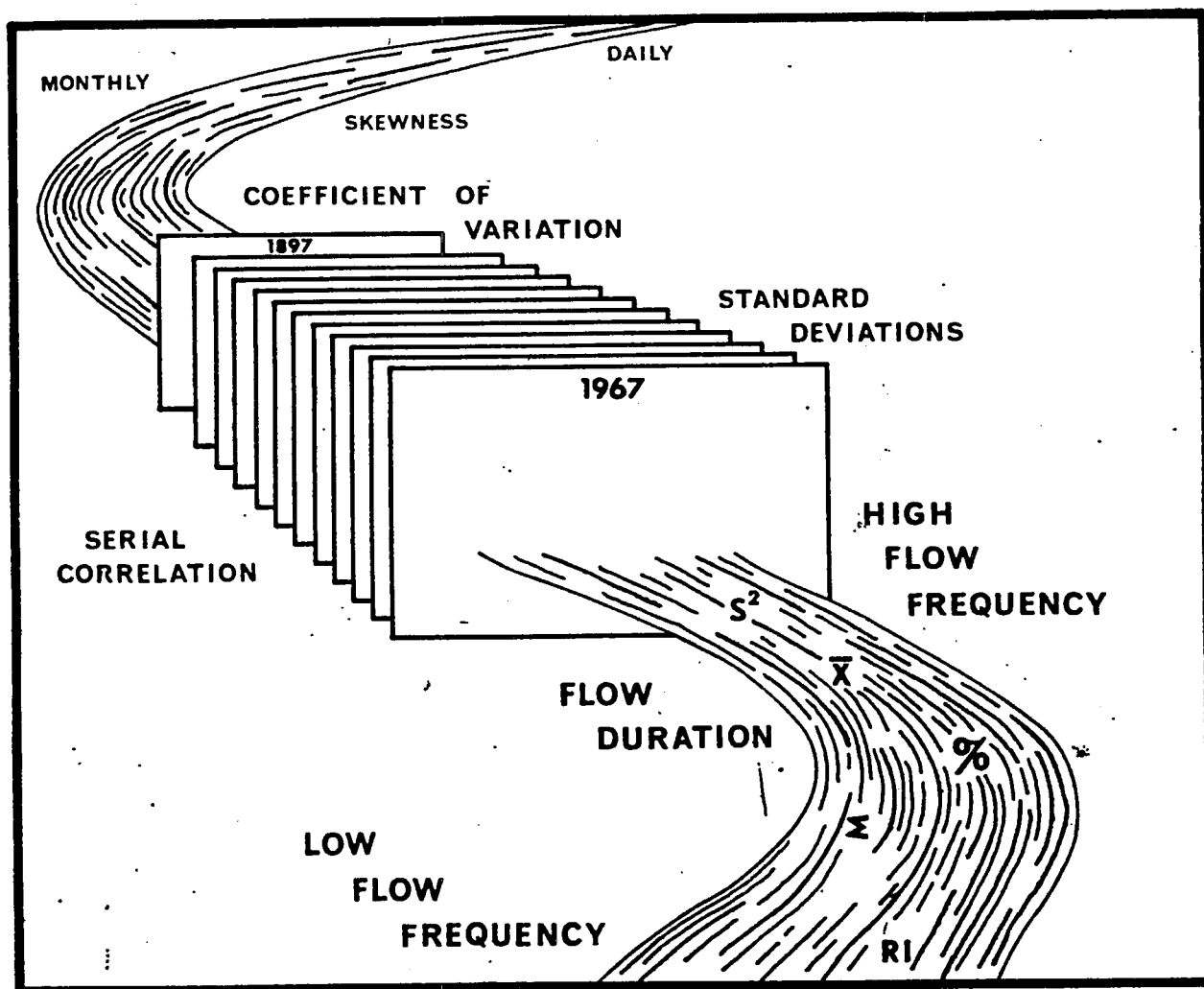
Correlation of part of the Cretaceous stratigraphic section in northern New Jersey and Maryland as determined by Wolfe and Pakiser (1971) is given below.



ATTACHMENT X

# STATISTICAL SUMMARIES OF NEW JERSEY STREAMFLOW RECORDS

WATER RESOURCES CIRCULAR 23



STATE OF NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION  
DIVISION OF WATER RESOURCES

Prepared in cooperation with  
United States Department of the Interior  
Geological Survey

1970

ATTACHMENT X

1-4635.00 DELAWARE RIVER AT TRENTON, N. J.

Location.--Lat 40°13'18", long 74°46'42", 450 ft upstream from Calhoun Street Bridge.

Drainage area.--6,780 sq mi.

Remarks.--Regulation reduces flood peaks and augments low flow. Diversions significant at low flow prior to November 1935 and since December 1953.

### DURATION TABLE OF DAILY DISCHARGE

CLASS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
YEAR	NUMBER OF DAYS IN CLASS																																				
1913				9	27	33	17	7	16	14	14	19	22	23	21	27	21	13	13	20	14	14	7	6	2	2	1	1							CFS_DAYS		
1914		7	5	5	18	23	12	32	32	60	19	24	11	18	19	15	11	12	9	5	6	5	1	7	2										4534430.0		
1915	7	24	7	13	12	11	25	10	21	19	49	24	27	11	21	15	7	13	14	10	7	6	4	3	2	1	2								4210340.0		
1916				3	4	15	24	21	25	16	27	19	25	42	31	18	19	17	11	11	7	7	1	2	1	2	1								3744420.0		
1917				16	8	28	12	14	40	13	31	34	19	28	29	25	23	16	6	4	6	4	3	3	1	2									4622360.0		
1918		5	5	33	35	29	20	39	18	16	16	10	18	16	18	8	17	7	11	10	11	8	6	3	3	1									3804440.0		
1919						5	12	39	48	26	25	22	24	25	29	19	23	28	23	9		1	5	2												3726590.0	
1920							8	36	33	30	26	32	30	29	12	21	18	16	18	17	5	5	4	3	4	10	4	3	1	1						3981340.0	
1921				9	10	22	21	9	25	18	17	29	30	24	13	21	18	22	18	16	14	11	4	6	2	4	1									4837760.0	
1922				1	6	28	24	11	31	27	20	27	23	26	16	19	17	11	14	14	19	9	3	2	1											4323990.0	
1923	2	42	49	29	25	24	4	13	21	14	23	16	18	6	8	11	11	13	10	5	3	4	7	2	2	1	1									4761500.0	
1924		6	20	25	21	18	8	18	22	24	23	19	13	17	18	33	12	20	9	13	8	7	5	3	1											2904090.0	
1925		10	10	14	33	46	28	27	15	10	18	35	17	29	10	29	6	8	5	3	4	2			1	1										4051970.0	
1926				8	6	19	26	12	24	27	28	29	11	29	29	19	17	19	18	22	5	8	5	3	1											3542340.0	
1927						8	4	12	15	26	25	34	35	30	46	33	34	18	11	10	2	9	5	3												3684630.0	
1928							3			6	2	1	18	20	30	42	35	49	41	29	25	21	17	9	6	5	2	3	1	1							4404650.0
1929				3	14	19	18	35	46	44	29	23	19	5	5	12	13	16	13	14	11	5	10	4	3	2										7249770.0	
1930		2	13	22	12	10	10	17	19	19	34	42	25	32	26	18	21	11	11	8	9	3	1													3703050.0	
1931				16	29	16	34	33	23	29	21	11	24	14	13	20	14	20	12	8	9	5	7	3	2	2										2856370.0	
1932	9	15	39	19	22	26	18	10	13	25	29	22	15	26	15	19	10	8	6	8	4	4	1	1	1	1										2901000.0	
1933		4	1		7	16	18	9	13	13	20	29	31	38	32	21	25	12	13	12	17	11	8	6	4	2	1									4642980.0	
1934				1	4	23	16	24	23	21	34	46	31	30	36	12	17	8	10	9	10	6	1													3703750.0	
1935						7	16	17	30	16	29	42	18	23	44	40	34	13	8	10	7	2	3	1	1	1	2									4430420.0	
1936				2	9	31	35	21	14	15	12	24	27	17	18	25	25	16	14	9	10	6	11	7	6	2	1	1	1	2	1	1	1	1	1	5341490.0	
1937				3	12	13	25	24	19	17	32	20	22	42	42	25	29	18	14	18	5	9	3	4	1											4524010.0	
1938						2	10	11	7	16	33	35	21	39	48	31	37	26	17	9	7	3	4	1	1	5	1									5115010.0	
1939	5	12	12	27	25	11	11	16	7	20	22	17	34	24	25	16	11	12	18	12	11	10	3	1	2											4619170.0	
1940				2	8	19	37	41	48	29	23	20	19	18	18	8	13	17	9	6	4	4	4	5	7	3	1	1	1							4324550.0	
1941	1	9	5	6	7	12	21	34	37	22	28	43	16	28	32	10	15	13	5	7	6	6	2	2	3	1										3952120.0	
1942		22	8	3	17	12	3	13	20	37	40	29	18	26	24	19	23	19	6	6	6	4	3	2	1	1	2									3329570.0	
1943		3	8	15	11	12	10	13	40	6	10	7	19	32	43	29	43	20	15	17	12	9	12	4	3											5400160.0	
1944		8	28	11	17	20	16	33	26	25	24	26	22	20	14	12	14	14	9	11	4	5	3	3												3337440.0	
1945				2	23	14	8	3	2	23	31	20	24	21	36	26	35	22	14	22	12	7	5	6	6	2	1									5388740.0	
1946				1	3	8	10	7	15	18	36	31	35	38	24	26	31	29	11	15	8	7	3	5	2	2	1	1								4899970.0	
1947							2	30	45	29	34	36	20	13	10	13	33	31	15	12	12	8	13	2	2	2										4970490.0	
1948				3	26	27	11	32	19	31	33	22	19	23	17	27	18	10	13	11	12	1	2	3	2											4734300.0	
1949		5	14	27	38	29	24	16	11	16	14	15	14	16	27	33	22	18	15	12	3	3	2	1	1	2										4005500.0	
1950				7	6	16	22	29	28	14	20	25	17	32	40	30	31	14	11	5	6	5	1	1	3											4072050.0	
1951						5	22	12	24	15	22	32	28	28	19	15	10	23	29	25	16	11	5	7	4	3	4	1	2	1	1					5389200.0	
1952						3	7	8	21	16	21	30	22	18	23	21	24	31	31	26	19	15	11	8	3	6	2									6594290.0	
1953				13	10	23	41	30	14	13	10	4	8	13	12	19	36	27	15	27	19	9	6	4	3	1	2									5250120.0	
1954				10	47	23	19	10	10	14	27	19	19	16	23	18	21	22	18	11	11	10	10	4	3											3303690.0	
1955				1	10	20	23	16	10	10	33	16	27	28	22	17	34	20	30	15	11	8	4	5	1	1										4069010.0	
1956							11	14	27	30	29	25	25	31	24	24	35	20	13	19	13	7	8	6	2											5311660.0	
1957				6	17	23	21	20	10	20	23	30	21	29	24	29	22	19	13	5	8	5	1	1	2	1	2									3769350.0	
1958				5	7	4	23	25	23	26	25	22	23	31	13	14	10	9	21	10	14	11	17	13	11	7	1	2	1	1	1					4555760.0	
1959						1	24	31	46	38	20	25	22	29	22	22	23	25	16	7	5	3	1	3	1											3175480.0	
1960							2	5	21	20	21	38	42	49	44	31	25	18	14	7	5	2	7	4	6											5709060.0	
1961						5	15	52	61	35	41	30	13	14	7	7	23	12	9	14	9	8	4	1	3	1										3934490.0	
1962				2	18	52	47	32	14	37	22	20	13	19	17	13	6	8	9	10	12	6	2	3	2	1										2921550.0	
1963				2	11	28	33	30	18	41	40	36	43	31	13	15	10	7	9	4	3	4	1	1	2	1	1									2877210.0	
1964	2	5	23	25	42	26	21	24	20	20	15	18	22	11	19	17	18	12	9	8	2	1	2	1	2	1										2992040.0	
1965		8	40	67	42	21	18	20	25	12	5	21	24	17	17	15	5	2		1	2	3														1718370.0	
1966																																					

CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT	CLASS	CFS	TOTAL	ACCU	PERCT
0	0.00	0	20088	100.0	9	4300.00	1389	14893	74.1	18	18000.0	879	3566	17.8	27	72000	46	105	.5
1	1240.00	29	20088	100.0	10	5100.00	1110	13504	67.2	19	21000.0	673	2687	13.4	28	84000	19	59	.2
2	1400.00	235	20059	99.9	11	5900.00	1429	12394	61.7	20	24000.0	594	7014	10.0	29	98000	16	40	.1
3	1700.00	478	19824	98.7	12	6900.00	1404	10965	54.6	21	28000.0	445	1420	7.1	30	110000	17	24	.1
4	200C.00	554	19346	96.3	13	8100.00	1207	9561	47.6	22	33000.0	321	975	4.9	31	130000	7	12	.0
5	2300.00	809	18792	93.5	14	9400.00	1212	8354	41.6	23	38000.0	243	654	3.3	32	160000	2	5	.0
6	2700.00	1010	17983	89.5	15	11C00.00	1335	7142	35.6	24	45000.0	135	411	2.0	33	180000	1	3	.0
7	3200.00	929	16973	84.5	16	13000.00	1066	5807	28.9	25	53000.0	110	276	1.4	34	210000	2	2	
8	3700.00	1151	16044	79.9	17	15000.00	1175	4741	23.6	26	61000.0	61	166	0.8					